**EPA REGISTRATION NUMBER 100-1508 – VOL.2** 

# Marchese, Jacquelyn

From: Flanery Matt USGR <matt.flanery@syngenta.com>

Sent: Tuesday, September 13, 2016 9:45 AM

To: Marchese, Jacquelyn

Cc: Mccain Patrick USGR; Eagle, Venus

Subject: RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Attachments: 000100-01508.20151007C.CrMaxxVibr-AMENDC-1015-CL.PDF;

000100-01508.20151007C.CrMaxxVibr-AMENDC-1015-HI.PDF

Hi Jackie,

Please find attached Clean and Highlighted label versions of 100-1508, CruiserMaxx Vibrance.

This round is highlighted in

- 1. Revised Plantback Interval Table in Seed Tag (mirrored in new section crop rotation restrictions)
  - a. Split Brassica Crop Group 5 into Subgroups 5A and 5B
  - b. Added 'Dry' to Onion, Bulb
  - Split Root and Tuber Veg Crop Group 1 into Subgroups 1A and 1D (Potato already listed separately under immediate plantback)
- 2. Added new section Crop Rotation Restrictions

Thanks,

-Matt

From: Flanery Matt USGR

Sent: Wednesday, September 07, 2016 11:46 AM

To: 'marchese.jacquelyn@epa.gov' < marchese.jacquelyn@epa.gov >

Cc: Mccain Patrick USGR <patrick.mccain@syngenta.com>

Subject: RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Hi Jackie.

We are good with your edits to 100-1508. We hope to get revised labels to you swiftly.

Thanks for the news on 100-935.

Thanks.

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Wednesday, September 07, 2016 11:21 AM

To: Flanery Matt USGR < matt.flanery@syngenta.com >

Cc: Mccain Patrick USGR <patrick.mccain@syngenta.com>

Subject: RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Hi Matt,

I sent the 100-935 label to Venus for a stamp, though I have a few minor comments on 100-1508 (see attached).

Let me know if you have any questions.

Thanks, Jackie

Jacquelyn Herrick (Marchese)
Entomologist
EPA/HQ/OSCPP/OPP/RD/IVB3
marchese.jacquelyn@epa.gov
703-347-0559

From: Flanery Matt USGR [mailto:matt.flanery@syngenta.com]

Sent: Friday, September 02, 2016 4:14 PM

To: Marchese, Jacquelyn < Marchese. Jacquelyn@epa.gov > Cc: Mccain Patrick USGR < patrick.mccain@syngenta.com >

Subject: RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Hi Jacky,

Please find attached revised clean and highlighted labels for 100-1508, CruiserMaxx Vibrance.

## This round of revisions is highlighted in turquoise:

- 1. Added batch code place holder, p. 1
- 2. Added 'made of' after gloves, before colon, p. 2
- 3. Revised Groundwater Advisory, pp. 3-4
- 4. Added 'Restrictions' section and moved MFX and MTL max loading restriction, p. 6
- 5. Changed 'recommended' to 'specified', p. 8
- 6. Wrote out our chemical names in Groundwater Advisory, Seed Tag, p. 11
- Added 'calendar' before 'year' to max loading rate restrictions in 3 places: Soybean (2 places) and Dried shelled peas and beans (1 place), p. 13
- Revised max loading rate for TMX for all applications from 0.125 to 0.266 lb thiamethoxam per acre (changed 56.7 to 120 g ai/A) per calendar year, p. 13
- 9. Added max loading rates for FDL and MFX in two places: Soybean and Dried shelled peas and beans, p. 13
- 10. Bulleted the statement, 'This seed has been treated with 0.0756 mg ai thiamethoxam per seed', p. 13
- 11. Added tank mix restriction, 'It is the user's ... REI from another)', p. 13

Thank you for your work on this one,

-Matt

From: Eagle, Venus [mailto:Eagle.Venus@epa.gov]

Sent: Tuesday, August 16, 2016 7:31 AM

To: Mccain Patrick USGR <patrick.mccain@syngenta.com>

Cc: Marchese, Jacquelyn < Marchese Jacquelyn@epa.gov >; Flanery Matt USGR < matt.flanery@syngenta.com >

Subject: RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Hi Pat,

Please give me a call so we can discuss this issue. My first meeting today is a 10 am so I will be at my desk until then. If that timing doesn't work, the best time to reach me would be at 4 pm.

Best regards,

Venus Eagle Product Manager 1 Invertebrate & Vertebrate Branch 3
Registration Division, Office of Pesticide Programs
US EPA (Mail Code 7505P)
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Phone: 703.308.8045

From: Mccain Patrick USGR [mailto:patrick.mccain@syngenta.com]

Sent: Monday, August 15, 2016 3:29 PM
To: Eagle, Venus < Eagle. Venus @epa.gov>

Cc: Marchese, Jacquelyn < Marchese. Jacquelyn@epa.gov>; Flanery Matt USGR < matt.flanery@syngenta.com>

Subject: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Importance: High

Hi Venus,

As you know, Jackie and Matt have been working to complete the review of a pending label amendment for CruiserMaxx Vibrance (100-1508). I believe all of the potential issues have been addressed except for the restriction the Agency is requiring related to potato plant-back restrictions. I extracted feedback Matt received in an email from Jackie dated August 2, 2016. It reads,

Page 10: Venus wants the potato language for the immediate plant back to stay on the label. You had argued that we should then put all restrictions from all previous labels over a 12 month period on this current label. This restriction here is for rotational plant back only, not all restrictions from a previous label. This restriction is to ensure that the grower is reminded that extra precautions are taken if potato was previously planted on the field.

Clearly this restriction is required on labels that include potato uses. I don't understand why it is required for labels that do not, such as CruiserMaxx Vibrance (100-1508), which is a soybean and pulses label? The treater/grower is obviously not intending to plant potatoes, so this restriction is meaningless to him/her. In fact, it will likely confuse them since there is no reference to potatoes elsewhere on the label. I believe it serves no practical purpose.

The reason I am asking you to reconsider this request is that, from a practical perspective, there is limited space on seed tags that are attached to the seed containers. With all the other restrictions required on the tags already, there is limited space available to list all the text required. Additional text, especially that of questionable utility to the grower, is logical to eliminate. This is becoming a very big issue for our seed customers who are constantly questioning if/why they need to include all the restrictions that are required.

I appreciate your consideration and would be happy to discuss with you, if necessary.

Sincerely, Pat

PS I am curious how the review of the remaining 7 Avicta label amendments is coming along? Treating season is fast approaching and we would really like to provide updated labels and seed tags for users of these seed treatments. Thanks in advance for your feedback....

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# (Master label)

GROUP 4A INSECTICIDE
GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled peas and beans, and soybean including all Vigna and Lupinus species.

	2 22 72
Active	Ingredients:
ACHIVE	murculents.

Thiamethoxam <sup>1</sup>	20.80%
1527Mefenoxam <sup>2</sup>	
<sup>1521</sup> Fludioxonil <sup>3</sup>	1.04%
157 <sup>‡</sup> Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance is a flowable concentrate for seed treatment containings 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane per gallon.

# KEEP OUT OF REACH OF CHILDREN.

# CAUTION

See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-1508

**EPA Est. XXXXX** 

SCP 1508 MAS 1214

**Net Contents** 

**DOCUMENTUM** 

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

ı		FIRST AID				
	• Call a poison control center or doctor immediately for treatment advice.					
	<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>					
	<ul> <li>Do not induce vomiting unless told to do so by the a poison control center or doctor.</li> </ul>					
ı		<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>				
	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.					
ı	HOT LINE NUMBER					
ı	For 24-Hour Medical Emergency Assistance (Human or Animal)					
	or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),					

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# CAUTION

1-800-888-8372

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

# Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves:-such-as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils
  - Shoes plus socks.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **ENGINEERING CONTROLS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish, oysters, and shrimp and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees, exposed to direct treatment, and effects may be are possible as a result of exposure to translocated residues in blooming crops.

## **Groundwater Advisory**

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. Fludioxonil and Thiamethoxam haves properties and characteristics associated with chemicals detected in groundwater. This These chemicals may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

## **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

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### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this-the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and; (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:



- Chemical-resistant gloves: such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance.

### **USE INFORMATION**

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soilborne and seed-borne diseases on seybeans, dried shelled peas and beans, and soybean (Vigna and Lupinus spp.).

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against *Pythium*, *Phytophthora* and systemic downy mildew.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum seasonal total for the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

## RESISTANCE MANAGEMENT

GROUP 4A INSECTICIDE

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists.

Insect populations may contain individuals naturally resistant to Group 4A insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

# In order to maintain susceptibility to this class of chemistry:

- Use products at their full, recommended doses.
- Use appropriate, well-maintained equipment. Use recommended water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

### For additional information on Insect Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org

# GROUP 4 7 12 FUNGICIDES

CruiserMaxx Vibrance contains mefenoxam, a Group 4 fungicide; sedaxane, a Group 7 fungicide; and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Sedaxane is a succinate dehydrogenase inhibitor (SDHI) and belongs to the carboxamide class of chemistry which disrupts cellular respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4, 7, or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

## For additional information on Fungicide Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <a href="http://www.frac.info">http://www.frac.info</a>

## **RESISTANCE MANAGEMENT**

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of

insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

CruiserMaxx Vibrance contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by CruiserMaxx Vibrance or other Group 4A insecticides.

### In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 4A insecticides exclusively for season long-control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply CruiserMaxx Vibrance or other Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A insecticides. Do not exceed the maximum CruiserMaxx Vibrance allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- If resistance is suspected, do not reapply CruiserMaxx Vibrance or any other Group 4A insecticides.

## Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

## For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org/.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.

Note: The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

### **MIXING PROCEDURES**

Important: Always re-circulate CruiserMaxx Vibrance thoroughly before using.

The typical density of CruiserMaxx Vibrance is 9.56 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

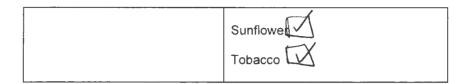
In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

- Ground Water Advisory: Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. Fludioxonil and Thiamethoxam haves properties and characteristics associated with chemicals detected in ground water. This These chemicals may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

  Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- Pollinator Precautions: Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- · Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.

- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements. Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a-crop failure or harvest of a crop grown from seed treated with CruiserMaxx Vibrance treated seed, the field may be replanted immediatelyaccording to canola, soybean, barley, oat, rye, triticale and wheat. the following schedule:

Plantback	Interval Table
Immediate Plantback	Minimum 30-Day Plantback Interval
Canola	the field may be replanted by bean, barley, oat, rye, triticale and wheat.  Interval Table  Minimum 30-Day Plantback Interval  Alfalfa
Cereal Grains: Barley, Corn (Field, Pop, Sweet), Oat, Rye, Sorghum, Triticale, and Wheat	Brassica (Cole) Leafy Vegetables Crop Group 5
Cotton ✓	Cereal Grains Crop Group 15
Dried Shelled Pea and Bean / Crop Subgroup 6C	Cucurbit Vegetables Crop Group 9
Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed	Fruiting Vegetables Crop Group 8
Potato ✓ Soybean ✓	Leafy Vegetables Crop Group 4
Sugarbeet Yaye seed	Legume Vegetables (Succulent or Dried) Crop Group 6
rup.	Mint: Peppermint and Spearmint
	Onion, Bulb, d MY
	Peanut
	Root and Tuber Vegetables Subgroup 1
	Safflower
	Strawberry



- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crops, the minimum plant back interval is 120 days from the date the seeds treated with CruiserMaxx Vibrance treated seed was were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7 grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled peas and beans (except soybeans) crop subgroup 6C: Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.
  - This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

Can

When applied according to the CRUISERMAXX VIBRANCE RATE TABLE, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season | *Phytophthora* root rot as well as Anthracnose on dry peas and beans, and soybean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron® XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

CruiserMaxx Vibrance Rate Table

Dried Shelled Pea and Bean Crop Subgroup 6C (except seybean) including: Bean (All Lupinus species), including: grain sweet white white sweet lupin Bean, (All Phaseolus Sepecies,) including: black bean cranberry bean field bean  Thiamethoxam 50 gm Mefenox 7.5 gm Fludioxonil 2.5 gm Sedaxane 2.5 gm Total = 62.5 gm	Cron		ite Ib seed)	Grams active ingr per 100 kg see	
Crop Subgroup 6C (except soybean) including: Bean (All-Lupinus species), including: grain sweet white white sweet lupin Bean, (All-Phaseolus Sspecies,) including: black bean cranberry bean field bean  3.22  0.32  Thiamethoxam 50 gm  Mefenox 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm			Apron XL	Cruiser Maxx Vibrance	Apron XL
great Northern bean   kidney bean   lima bean, dry   navy bean   pinto bean   runner bean   -snap bean   -small red bean   tepary bean   wax bean   yellow bean	Crop Subgroup 6C (except seybean) including: Bean (All Lupinus species), including: grain sweet white white sweet lupin Bean, (All Phaseolus Sspecies,) including: black bean cranberry bean field bean great Northern bean kidney bean lima bean, dry navy bean pinto bean runner bean snap bean small red bean tepary bean tepary bean wax bean	\	0.32	Mefenoxam 7.5 gm Fludioxonil 2.5 gm Sedaxane 2.5 gm	Mefenoxam 7.5 gm

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Bean, (AII- <i>Vigna</i> species,)			
i <del>ncludin</del> g:			
adzuki bean			
asparagus bean			
blackeyed pea			·
catjang	i		
Chinese longbean			1
cowpea			
Crowder pea			
moth bean			
mung bean			
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southern pea			
urd bean			
yardlong bean			
Broad bBean (fava			
Bbean, dry)			
Chickpea			
Guar			
Lablab Bean			
	i		
Lentil			
Pea, <i>Pisum</i> species,			
including:			
Field			
Pigeon Pea			

Crop	Rate of CruiserMaxx Vibrance			
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed	
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Total of all active ingredients = 0.0945 mg	

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

### STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the seed listed on this label against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

## **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## Container Handling [greater than 5 gallons - mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## Container Handling [greater than 5 gallons - bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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Viton® trademark of E. I. du Pont de Nemours & Company, Inc.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481

Manufactured for: Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, North Carolina 27419-8300

CruiserMaxx Vibrance 1508 MAS 1214 AMEND OCT2015 HI – rk – 10/7/15 000100-01508.20151007.CrMaxxVibr-AMEND-1015-HI.PDF

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Otte Investents	720094
11.00	1000 (00) (%,

One gallon of Cruite Mass Viviance contains 1.29 to this methodom, 0.20 to methodom, 0.10 to set or are.

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Save additional presautionary statements and directions for use in bookiet.

### 

Ware this product only im accordance with its labeling and with the Wiotker Protection. Standard, 40 CFR post 1770. Refer to supplemental labeling under "Agricultural Ware Requirements" in the Directions for War section for information about this standard.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

CIDOT AID

FIRST AID			
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>		
	Have the product container or label with you when calling a poison control center or doctor or going for treatment.		
For 24-Ho	HOT LINE NUMBER  ur Medical Emergency Assistance (Human or Animal) al Emergency Assistance (Spill, Leak, Fire or Accident)  Call 1-800-888-8372		

#### **Environmental Hazards**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

## **Pollinator Precautions:**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

## **Groundwater Advisory:**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

### Pesticide Storage

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

# Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### Container Handling [greater than 5 gallons - mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## Container Handling [greater than 5 gallons - bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

(Non-detachable Container Label - Bulk)

# GROUP 4A INSECTICIDE

# GROUP 4 7 12 FUNGICIDES

### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:

, total of trigit out of the	
Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	100.00%
	73.99% 100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

KEEP OUT OF REACH OF CHILDREN

# CAUTION

See additional precautionary statements and directions for use in booklet.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508 EPA Est. XXXXX SCP 1508 MAS 1214

\_\_\_\_\_gallons

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

# CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIRST AID		
<del>If swallowed</del>	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment.		
HOT LINE NUMBER		
For 24-Hour Medical Emergency Assistance (Human or Animal)		
or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),		
<del>Call</del>		
<del>1-800-888-8372</del>		

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### Physical and Chemical Hazards

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it. subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### Pesticide Storage

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Handling [greater than 5 gallons - bulk]

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CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

# Marchese, Jacquelyn

From:

Eagle, Venus

Sent:

Tuesday, August 16, 2016 7:31 AM

To:

Mccain Patrick USGR

Cc:

Marchese, Jacquelyn; Flanery Matt USGR

Subject:

RE: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Hi Pat,

Please give me a call so we can discuss this issue. My first meeting today is a 10 am so I will be at my desk until then. If that timing doesn't work, the best time to reach me would be at 4 pm.

Best regards,

Venus Eagle
Product Manager 1
Invertebrate & Vertebrate Branch 3
Registration Division, Office of Pesticide Programs
US EPA (Mail Code 7505P)
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Phone: 703.308.8045

From: Mccain Patrick USGR [mailto:patrick.mccain@syngenta.com]

Sent: Monday, August 15, 2016 3:29 PM
To: Eagle, Venus < Eagle. Venus@epa.gov>

Cc: Marchese, Jacquelyn <Marchese.Jacquelyn@epa.gov>; Flanery Matt USGR <matt.flanery@syngenta.com>

Subject: Label amendment for 100-1508 (CruiserMaxx Vibrance) McCain 8-15-16

Importance: High

Hi Venus,

As you know, Jackie and Matt have been working to complete the review of a pending label amendment for CruiserMaxx Vibrance (100-1508). I believe all of the potential issues have been addressed except for the restriction the Agency is requiring related to potato plant-back restrictions. I extracted feedback Matt received in an email from Jackie dated August 2, 2016. It reads,

Page 10: Venus wants the potato language for the immediate plant back to stay on the label. You had argued that we should then put all restrictions from all previous labels over a 12 month period on this current label. This restriction here is for rotational plant back only, not all restrictions from a previous label. This restriction is to ensure that the grower is reminded that extra precautions are taken if potato was previously planted on the field.

Clearly this restriction is required on labels that include potato uses. I don't understand why it is required for labels that do not, such as CruiserMaxx Vibrance (100-1508), which is a soybean and pulses label? The treater/grower is obviously not intending to plant potatoes, so this restriction is meaningless to him/her. In fact, it will likely confuse them since there is no reference to potatoes elsewhere on the label. I believe it serves no practical purpose.

The reason I am asking you to reconsider this request is that, from a practical perspective, there is limited space on seed tags that are attached to the seed containers. With all the other restrictions required on the tags already, there is limited

space available to list all the text required. Additional text, especially that of questionable utility to the grower, is logical to eliminate. This is becoming a very big issue for our seed customers who are constantly questioning if/why they need to include all the restrictions that are required.

Lappreciate your consideration and would be happy to discuss with you, if necessary.

Sincerely, Pat

PS I am curious how the review of the remaining 7 Avicta label amendments is coming along? Treating season is fast approaching and we would really like to provide updated labels and seed tags for users of these seed treatments. Thanks in advance for your feedback....

This message may contain confidential information. If you are not the designated recipient, please notify the sender immediately, and delete the original and any copies. Any use of the message by you is prohibited.

# Marchese, Jacquelyn

From:

Flanery Matt USGR <matt.flanery@syngenta.com>

Sent:

Wednesday, August 10, 2016 3:24 PM

To:

Marchese, Jacquelyn

Subject:

RE: 100-935, Helix XTra, 100-1508

Hi Jackie,

Thank you very much for your work to bring these points up to EFED and Venus.

We will get you a Revised 100-935 label soon.

As for 100-1508, I think Pat and Venus are still going to have to discuss including Sedaxane on Potato restrictions to the PBI table.

Thank you for your diligence,

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Tuesday, August 09, 2016 3:09 PM

To: Flanery Matt USGR <matt.flanery@syngenta.com>

Subject: RE: 100-935, Helix XTra, 100-1508

Hi Matt,

I conferred with our scientists in EFED regarding the surface water advisory on the seed bag tag for 100-935. They have agreed that if you would like to remove the "for several months or longer" statement off of the seed bag tag only, you may do so. In regard to the "high potential for run off," this must remain. My EFED colleagues cited several papers (which I can provide if you'd like) presenting data that show a significant amount of seed coating is not taken up by the plant, and document neonic residues in streams during seed planting operations.

I also have spoken further with Venus, and she is OK with the 0.266 limit for soybean for 100-1508, given the HED document that you sent over and the other labels cited in your email below with the same rate.

I hope at this point, we can close these two out and be ready to move onto the next set of labels.

Let me know if you have any questions.

Thanks, Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

From: Flanery Matt USGR [mailto:matt.flanery@syngenta.com]

Sent: Thursday, August 04, 2016 12:16 PM

To: Marchese, Jacquelyn < Marchese. Jacquelyn@epa.gov >

Subject: RE: 100-935, Helix XTra

Hi Jackie.

I found a few more examples of products with the max loading rate restriction of 0.266 lb ai/A/yr:

- 100-1384
- 100-1459
- 100-1460

Thanks,

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Thursday, August 04, 2016 11:09 AM

To: Flanery Matt USGR < matt.flanery@syngenta.com >

Cc: Mccain Patrick USGR <patrick.mccain@syngenta.com>; Eagle, Venus <Eagle.Venus@epa.gov>

Subject: RE: 100-935, Helix XTra

Hi Matt,

Thanks for the label. I have a few comments.

- Please remove "specially" from the bottom of page 9.
- The surface water advisory on the seed bad tag is a little too bare bones. I expanded on your abbreviated version, but tried to keep in mind you're worried about space....
  - "This product has a high potential of runoff for several months or more after application. This is especially true for poorly draining soils and soils with shallow groundwater. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features will reduce the potential loading of the chemicals in this product from runoff water and sediment. To reduce runoff, avoid applications when rainfall or irrigation is expected to occur within 48 hours."
- Please add "as a seed treatment application" to the end of the sentence in the second bullet on page 12.
- I don't see the Crop Rotation Restrictions section that you said you added to page 10. Can you add this section on the Section 3 label?

As always, please let me know if you have any questions.

Thanks, Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

From: Flanery Matt USGR [mailto:matt.flanery@syngenta.com]

Sent: Wednesday, August 03, 2016 2:41 PM

To: Marchese, Jacquelyn < <a href="Marchese.Jacquelyn@epa.gov">Marchese.Jacquelyn@epa.gov</a> <a href="Ce: Mccain Patrick USGR">Cc: Mccain@syngenta.com</a> <a href="Marchese.Jacquelyn@epa.gov">Patrick.mccain@syngenta.com</a> <a href="Marchese.Jacquelyn@epa.gov">Marchese.Jacquelyn@epa.gov</a> <a href="Marchese.Jacquelyn@epa.gov">Marchese

Subject: 100-935, Helix XTra

Hi Jackie,

Please find attached revisions, highlighted in Turquoise, for 100-935:

- 1. Added place holder for batch code, bottom of p. 1
- 2. Added 'made of' back into glove statement (3 places), PPE, top of p. 3
- 3. Revised respirator descriptor, PPE, top of p. 3
- 4. Revised respirator descriptor, PPE, middle of p.3
- 5. Reformatted PPE for Forklift Operators, Added list of chemical-resistant gloves, middle of p.3
- 6. Removed statement in parentheses, Surface Water Advisory, middle of p. 4
- 7. Separated out Ground Water Advisory statements for each individual ai, bottom of p. 4 and top of p. 5
- 8. Removed sentence relating ai's to brands, last sentence under Product Information, bottom of p. 7
- 9. Removed 'specially', first sentence under Mixing Procedures, bottom of p. 9
- 10. Added Surface Water Advisory statement to Seed Tag, p. 10
- 11. Added new section, Crop Rotation Restrictions, p. 10
- 12. Added 'dry' to bulb onion
- 13. Revised entry for 'Tuberous and Corm Vegetables (including Potato) Crop Subgroup 1C' to 'Tuberous and Corm Vegetables (Except Potato) Crop Subgroup D', PBI Table, p. 12
- 14. Added Potato as a separate entry, PBI Table, p. 12
- 15. Changed 'season' to 'calendar year', 3rd to last bullet, Seed Tag, p. 12

Thanks.

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Tuesday, August 02, 2016 4:49 PM

To: Flanery Matt USGR < matt.flanery@syngenta.com >

Subject: mefenoxam max yearly rate for seed treatment - 100-1146

Hi Matt,

I spoke with Venus this afternoon, here are her responses to your questions:

### 100-935:

Page 7 – The sentence that refers to other products should be removed. We want the label to be clear and concise, and language that describes other products just brings clutter to the label.

Page 12 – As Syngenta doesn't have a max rate for canola, and because the last bullet on the page covers the restriction, we won't require the max amount for all application types at this time.

#### 100-1508:

Page 3: You may ignore my comment to add language to the Environmental Hazards statement.

Page 10: Venus wants the potato language for the immediate plant back to stay on the label. You had argued that we should then put all restrictions from all previous labels over a 12 month period on this current label. This restriction here is for rotational plant back only, not all restrictions from a previous label. This restriction is to ensure that the grower is reminded that extra precautions are taken if potato was previously planted on the field.

Page 11: Can you show me your calculations why doubling the 5.7g max of mefenoxam will make room for the tank mix? The tank mix will provide 100 kg of seed with 15 kg of mefenoxam. If you use a seeding rate of anywhere between 125,000-200,000 seeds per acre the tank mix should be below the 5.7g max.

- Max mefenoxam rate is 5.7g of mefenoxam/acre (pg 9 on 100-1145)
- Mixing rate is 7.5g x 2 (15g) of mefenoxam/100 kg seed (pg 10 on 100-1146)
- Average seed rate for soybeans is 160,000 (+/- 40,000) seeds/acre

- Average seed weight = 3,000 seeds (given on page 11 100-1146)/1 pound = 6,600 seeds/1 kg = 660,000 seeds/100 kg
- 660,000 seeds per 15 g of mefenoxam = 3.6 g of mefenoxam per 160,000 seeds

Let me know if you have any questions.

Thanks, Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

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#### Marchese, Jacquelyn

From:

Flanery Matt USGR <matt.flanery@syngenta.com>

Sent:

Wednesday, August 03, 2016 10:27 AM

To: Cc: Marchese, Jacquelyn Mccain Patrick USGR

Subject:

RE: mefenoxam max yearly rate for seed treatment - 100-1146

Hi Jackie,

Thanks for the quick feedback from Venus.

I went through your calculations and attempted to recalculate my own, but failed to figure out why we needed to double it. I may have been going off the false premise that your max loading rate only covered the 7.5 g ai/100 kg rate for Mefenoxam. (For Fludioxonil the max loading rate does only cover the 2.5 g ai/100 kg rate, so I think I just assumed that was the case with Mefenoxam.) Thanks for double-checking the math and explaining it.

We are good with a Max Loading Rate for Mefenoxam of 0.013 lb ai (5.7 g ai)/A/yr.

The only issue remaining on my end is for Pat and Venus to discuss the inclusion of SDX on Potato restrictions to the Plantback Interval Table.

Thanks,

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

**Sent:** Tuesday, August 02, 2016 4:49 PM

To: Flanery Matt USGR <matt.flanery@syngenta.com>

Subject: mefenoxam max yearly rate for seed treatment - 100-1146

Hi Matt,

I spoke with Venus this afternoon, here are her responses to your questions:

#### 100-935:

Page 7 – The sentence that refers to other products should be removed. We want the label to be clear and concise, and language that describes other products just brings clutter to the label.

Page 12 – As Syngenta doesn't have a max rate for canola, and because the last bullet on the page covers the restriction, we won't require the max amount for all application types at this time.

#### 100-1508:

Page 3: You may ignore my comment to add language to the Environmental Hazards statement.

Page 10: Venus wants the potato language for the immediate plant back to stay on the label. You had argued that we should then put all restrictions from all previous labels over a 12 month period on this current label. This restriction here is for rotational plant back only, not all restrictions from a previous label. This restriction is to ensure that the grower is reminded that extra precautions are taken if potato was previously planted on the field.

Page 11: Can you show me your calculations why doubling the 5.7g max of mefenoxam will make room for the tank mix? The tank mix will provide 100 kg of seed with 15 kg of mefenoxam. If you use a seeding rate of anywhere between 125,000-200,000 seeds per acre the tank mix should be below the 5.7g max.

• Max mefenoxam rate is 5.7g of mefenoxam/acre (pg 9 on 100-1145)

- Mixing rate is 7.5g x 2 (15g) of mefenoxam/100 kg seed (pg 10 on 100-1146)
- Average seed rate for soybeans is 160,000 (+/- 40,000) seeds/acre
- Average seed weight = 3,000 seeds (given on page 11 100-1146)/1 pound = 6,600 seeds/1 kg = 660,000 seeds/100 kg
- 660,000 seeds per 15 g of mefenoxam = 3.6 g of mefenoxam per 160,000 seeds

Let me know if you have any questions.

Thanks, Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

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#### Marchese, Jacquelyn

From:

Flanery Matt USGR <matt.flanery@syngenta.com>

Sent:

Tuesday, August 02, 2016 4:46 PM

To: Cc: Marchese, Jacquelyn Mccain Patrick USGR

Subject:

RE: Label comments for 100-935, 100-1508

Attachments:

051809 THX Tropical EFED.pdf; HED Thiamethoxam DER Magnitude of the Re.pdf; HED

Thiamethoxam Review of Request to Ad.pdf

Hi Jackie,

Please find attached EFED Risk Assessment for Thiamethoxam, Table A, p. 2 (p. 4 of PDF). The 'Maximum Single Application Rate' assessed is for Small Fruit Vine Climbing subgroup 13-07F – 0.266 lb ai/A.

I am also attaching the Residue study DERs just to confirm that the max rate is above 0.266 for the residue studies.

It was good talking with you today and I appreciate the work you are doing on these products.

Thanks,

-Matt

From: Flanery Matt USGR

Sent: Friday, July 29, 2016 5:26 PM

To: Marchese, Jacquelyn <Marchese.Jacquelyn@epa.gov> Cc: Mccain Patrick USGR <patrick.mccain@syngenta.com> Subject: RE: Label comments for 100-935, 100-1508

Hi Jackie.

Thanks for getting back to us on these two. I've just glanced through the revisions briefly. Let me take some time to go through them carefully, and I'll get back to you hopefully during the early part of next week.

Thanks,

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Monday, July 25, 2016 12:41 PM

To: Mccain Patrick USGR <patrick.mccain@syngenta.com>; Flanery Matt USGR <matt.flanery@syngenta.com>

**Subject:** Label comments for 100-935, 100-1508

Hi Pat, Matt,

Please see label comments for 100-935 and 100-1508. I think at this point it will be easiest if we complete the remaining labels in batches.

If you have any questions, please let me know.

Thank you, Jackie Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

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#### Marchese, Jacquelyn

From:

Marchese, Jacquelyn

Sent:

Wednesday, March 23, 2016 11:22 AM

To:

Mccain Patrick USGR

Cc:

Eagle, Venus; Flanery Matt USGR

Subject:

100-1405, 100-1399, 100-1508, - Seed Treatment Products with Mefenoxam

Hi Pat,

As a quick follow up, I understand FB and Syngenta have been working closely on developing additional label language for mefenoxam. Products 100-1405, 100-1399, 100-1508, and 100-RLAG all contain mefenoxam and may require parts of this language as well. I need to follow up with Maryam and Hope regarding these changes.

Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

#### Marchese, Jacquelyn

From:

Marchese, Jacquelyn

Sent:

Thursday, March 10, 2016 3:23 PM

To:

Mccain Patrick USGR

Cc:

Eagle, Venus; Flanery Matt USGR; Friend Dianna USGR

Subject:

RE: Avicta Label Revisions status Final Marchese McCain 3-8-16

Hi Pat.

I added the following information to your table below in black font. Venus and Marianne both had comments to the recent revised labels you have recently sent over. I am working to gather their comments to send your way.

100-1321: Venus just finished going through the initial label, and I am working on putting all of the comments together for you

100-1204: abamectin – We have received your revised labels and Marianne has additional comments, I will be sending them your way 3/10 or 3/11

100-1211: abamectin – We have received your revised labels and Marianne has additional comments, I will be sending them your way 3/10 or 3/11

100-1353: received new labels from Syngenta on 3/9 – labels will go through one last look by JM and VE

100-1538: received new labels from Syngenta on 3/9 – labels will go through one last look by JM and VE

100-1399: received new labels from Syngenta on 3/4 - VE has additional comments, JM will put together and send to Syngenta hopefully by 3/14

100-1405: received new labels from Syngenta on 3/4 - VE has additional comments, JM will put together and send to Syngenta hopefully by 3/14

100-1508: comments to Syngenta on 2/17/16, questions from Syngenta on 3/1/16, EPA has yet to respond...getting there! 100-RLAG: received new labels from Syngenta on 3/8 – labels will go through one last look by JM and VE

100-1457: Venus is still reviewing label

#### Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

From: Marchese, Jacquelyn

Sent: Wednesday, March 09, 2016 3:32 PM

To: 'Mccain Patrick USGR' <patrick.mccain@syngenta.com>

Cc: Eagle, Venus < Eagle. Venus@epa.gov>; Flanery Matt USGR < matt.flanery@syngenta.com>; Friend Dianna USGR

<dianna.friend@syngenta.com>

Subject: RE: Avicta Label Revisions status Final Marchese McCain 3-8-16

Hi Pat,

There are a lot of labels to keep straight! Thanks for the table. I hope to spend a lot of time tomorrow on these labels and will get you a useful response to this email then when I have a chance to go through all of my notes.

Thanks for your patience,

Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

From: Mccain Patrick USGR [mailto:patrick.mccain@syngenta.com]

Sent: Tuesday, March 08, 2016 3:16 PM

To: Marchese, Jacquelyn < Marchese. Jacquelyn@epa.gov >

Cc: Eagle, Venus < Eagle. Venus@epa.gov>; Flanery Matt USGR < matt.flanery@syngenta.com>; Friend Dianna USGR

<dianna.friend@syngenta.com>

Subject: RE: Avicta Label Revisions status Final Marchese McCain 3-8-16

Hi Jackie,

As evidence I am really confused by all these Avicta labels ③, I found an error in my understanding of the situation I described below in a previous email. My error was that EPA <u>has</u> provided final comments for 100-1399 and -1405, unlike my previous understanding that the Agency hadn't. There, I believe Syngenta is just waiting to receive EPA's feedback on 1 label. The 5 labels listed below that I indicate Syngenta has provided "final" versions to EPA could be stamped "approved", if the Agency agrees with these proposed versions.

Please find a table where I now believe I have accurately described the current Avicta label amendment situation:

Product Name	EPA Reg No.	Date EPA "Final" comments received	Date Syngenta provided proposed "final" version of label to EPA (by email)	EPA Response
Avicta 400FS	100-1211	Feb 17, 2016	March 2, 2016	Marianne has additional comments – I will be sending them over on 3/10 or 3/11
Avicta 500FS	100-1204	Feb 17, 2016	March 2, 2016	Marianne has additional comments – I will be sending them over on 3/10 or 3/11
Avicta Complete Corn 250	100-1405	March 3, 2016	March 4, 2016	VE has additional comments, JM will put together and send to Syngenta hopefully by 3/14
Avicta Complete Corn 500	100-1399	March 3, 2016	March 4, 2016	VE has additional comments, JM will put together and send to Syngenta hopefully by 3/14
Avicta Complete Beans 500	100-1457	Feb 26, 2016	March 4, 2016	Venus is still reviewing label
Avicta Duo 250	100-1353	Feb 26, 2016	March 9, 2016	labels will go through one last look by JM and VE
Avicta Duo	100-1321	Initial comments not received yet	Will be provided as soon as possible after receiving initial comments from EPA	Venus just finished going through the label, and I am working on putting all of the comments together for you
Avicta Duo COT 202	100-1538	Feb 26, 2016	March 9, 2016	labels will go through one last look by JM and VE

#### Marchese, Jacquelyn

From:

Mccain Patrick USGR <patrick.mccain@syngenta.com>

Sent:

Wednesday, March 02, 2016 3:22 PM

To: Cc: Marchese, Jacquelyn Flanery Matt USGR

Subject:

RE: Outstanding label comments

Thank you Jackie. I truly appreciate the updates and your efforts to complete these actions as quickly as you can.

Pat

**From:** Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Wednesday, March 02, 2016 3:08 PM

**To:** Mccain Patrick USGR **Cc:** Flanery Matt USGR

Subject: Outstanding label comments

Hi Pat, Matt,

I know I promised label comments for 100-1399 and 100-1405 today, and I also know that I need to respond to an email regarding comments on 100-1508, but there are a few things I need to run by Venus first. She's been in meetings all day, and I haven't been able to get a hold of her. Her calendar looks much clearer tomorrow, therefore, I hope to get you your answers by tomorrow or Friday.

Doing my best to stay on top of these thiamethoxam amendments.

Thanks, Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559

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#### Marchese, Jacquelyn

From:

Flanery Matt USGR <matt.flanery@syngenta.com>

Sent:

Tuesday, March 01, 2016 2:31 PM

To:

Marchese, Jacquelyn Mccain Patrick USGR

Subject:

RE: 100-1508 Label Revisions

Attachments:

000100-01508.20151007.CrMaxxVibr-AMEND-1015-CL EPA Edits.pdf

Hi Jackie,

Thanks for reviewing. We agree with the vast majority of your revisions to 100-1508, but the last two comments gave us a few questions/concerns:

- 1. CruiserMaxx Vibrance Rate Table, top of p. 12, you wrote, "We won't allow the addition of 'Crop Subgroup 6C'": Do you mean this literally, as in not putting these three words, 'Crop Subgroup 6C', or do you mean you want to remove uses for those crops?
- 2. Seed Tag, Rate Restrictions, p.11:
  - a. May we double the 0.004 lb (2.0 g)/A/calendar year for fludioxonil to 0.008 lb (4.0 g)/A/calendar year to allow for tank-mixing at the max labeled rate (approved with 100-758)?
  - b. Is the 0.013 lb (5.7g)/A/calendar year restriction for mefenoxam? If so, may we also double the mefenoxam rate to 0.016 lb (11.4 g)/A/calendar year to allow tank-mixing (tank-mixing recommendation is on this label up to 15 g/100 kg in the far right column of rate table)?
  - c. Are these rate restrictions for both Soybean and Dry Peas and Beans (except Soybean) Crop Subgroup 6C? Do you want to remove the reference to 'Crop Subgroup 6C' throughout (i.e., question '1' above)?

-Matt

From: Marchese, Jacquelyn [mailto:Marchese.Jacquelyn@epa.gov]

Sent: Wednesday, February 17, 2016 5:04 PM

**To:** Mccain Patrick USGR **Cc:** Flanery Matt USGR

Subject: 100-1508 Label Revisions

Hi Pat,

Please see the label revisions for 100-1508. Some of the changes requested in this label should reflect changes that the fungicide branches are/will be requesting. This includes revisions to the plant back table for sedaxane which should give you more crops then have previously been allowed (I will update the other pending actions with this in mind).

100-RLAG is next on my list. Thank you for your continued patience!

Please let me know if you have any questions.

Jackie

Jacquelyn Marchese Entomologist EPA/HQ/OSCPP/OPP/RD/IVB3 marchese.jacquelyn@epa.gov 703-347-0559 This message may contain confidential information. If you are not the designated recipient, please notify the sender immediately, and delete the original and any copies. Any use of the message by you is prohibited.

## FAST-TRACK AMENDMENTS – Completeness Screening Checklist

EPA	Reg. Number: 100 - 1508 EPA Receipt Date: 11/19/	1,5	
	(lhecklist/tem	Yes	i NŽA
1	Application Form (EPA Form 8570-1) - signed?	X	
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?		X
3	Certification with Respect to Citation of Data (EPA Form 8570-34) - signed?		X
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?		X
5	Data Matrix (EPA Form 8570-35) [Applicable for adding me-too uses] - signed? a) Selective Method? b) Cite-All Method? c) Public copy of Matrix provided? See PR Notice 98-5		X
6	Is Label included? (5 copies)	X	
	a) Electronic Label submitted?	X	
	Comments:  Scellie		



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

November 23, 2015

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

PATRICK McCAIN SYNGENTA CROP PROTECTION, LLC 410 SWING ROAD, PO Box 18300 GREENSBORO, NC 27419-8300

PRODUCT NAME: CRUISERMAXX VIBRANCE

COMPANY NAME: SYNGENTA CROP PROTECTION, LLC

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 100-1508 EPA RECEIPT DATE: 11/19/15

SUBJECT: RECEIPT OF AMENDMENT

**DEAR REGISTRANT:** 

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 1, at (703) 308-8045.

Sincerely,

Front End Processing Staff

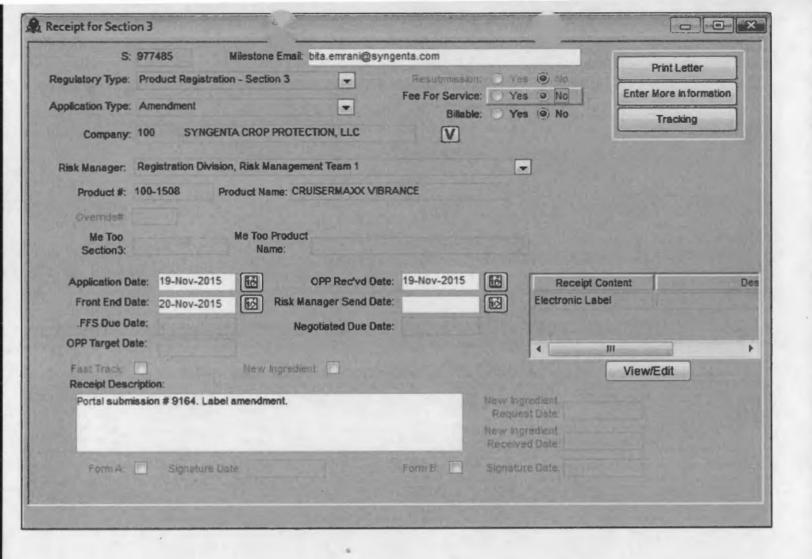
2/26

Information Services Branch

Information Technology & Resources Management Division

# Fee for Service {977485V~

This package includes the following	for Division
○ New Registration	○ AD ○ BPPD ◎ RD
□ Studies? □ Fee Waiver? □ volpay % Reduction:	Risk Mgr. 1
Receipt No. S- EPA File Symbol/Reg. No. Pin-Punch Date:	977485 100-1508 11/19/2015
This item is NOT subject t	o FFS action.
Action Code:  Requested:  Granted:  Amount Due: \$	Parent/Child Decisions:
Inert Cleared for Intended Use Reviewer: Kemarks:	Uncleared Inert in Product  Date: 1/ 23-15
C A d in =	A COLUMN TALTI IAN



### **DOCUMENTUM**



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UserGuide

### **PRISM Documentum**

You are here: EPA Home ▶ PRISM Documentum ▶ Inbox

	Info Comments Progress
Inbox Basic S earch Advan ced Se arch	ISB In Processing: 100-1508 S977485 2015-11-20 Description: 100-1508 S977485 2015-11-20 From: Doc Admin Received: 11/23/2015 8:18 AM WorkFlow Instructions:
Catego ries Se arch My Sav ed Sea rches My Che ckout	977485 : Comments  Comment Author Date  Non-PRIA Montague, Kathryn V. 11/23/2015 8:18 AM  Fast-track label amend ment: Y  Notification: N  Add
Import Intern al Import	



Patrick McCain Senior Regulatory Product Manager Regulatory Affairs, Seedcare (336) 632-7317 (phone) (336) 632-5688 (fax) patrick mccain@syngenta.com Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com

November 19, 2015

Document Processing Desk (ESUB) (AMEND)
Office of Pesticide Programs (7505P)
U.S. Environmental Protection Agency
One Potomac Yard
2777 South Crystal Drive – Room S-4900
Arlington, VA 22202

Attention: Ms. Venus Eagle - PM Team 1, Invertebrate and Vertebrate Branch 3, RD

Subject: CruiserMaxx® Vibrance®

EPA Reg. No. 100-1508

**Fast-Track Label Amendment** 

Dear Ms. Eagle:

Syngenta Crop Protection, LLC requests amended labeling for the subject product to include the following revisions:

- · Revised tag line on the first page to be consistent with revised crop directions for use
- Added formulation descriptor to the first page per previous EPA guidance
- In the Environmental Hazards section, added '..., oysters, and shrimp...' per EPA's hazard profile for Fludioxonil
- Revised language for Pollinator Precautions per previous EPA guidance
- Revised and condensed statements for Groundwater Advisory and included Fludioxonil per Label Review Manual and to be consistent with current seed treatment labels
  - Revised statement including the list of crops for use of this product under Product Information section to be consistent with revised listing under Crop Use Directions
  - Revised and updated the Resistance Management section to be consistent with current seed treatment labels
  - Revised Seed Bag Label Requirements
    - Revised Ground Water Advisory bullet to mirror revisions made to the Groundwater Advisory under the Environmental Hazards section per previous EPA guidance
    - Removed forage restrictions as none of the active ingredients in this product restrict the grazing of the Foliage of Legume Vegetables Crop Group 7. This statement was inadvertently included in the original label. The statement was inadvertently included based on a grazing restriction for the active ingredient Fludioxonil. However, Fludioxonil does not have a restriction for grazing of foliage of legume vegetables (Crop Group 7). Instead, the grazing restriction is for Crop Groups 16, 17, and 18.
    - Added Corn (Field, Pop, Sweet); Sorghum; Cotton; Dried Shelled Pea and Bean Crop Subgroup 6C; Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed; Potato; and Sugarbeet to the list of crops available for immediate plantback. These crops have all been relatively recently added uses for Vibrance (Sedaxane solo product), EPA Reg. No. 100-1374. Please refer to enclosed Plantback Interval Table for additional details.
    - Added '...peas and...crop subgroup 6C' to annual use rate restriction bullet due to change in crops included under Crop Use Directions

- Under Crop Use Directions, corrected the crop list to include all of Dried Shelled Pea and Bean Crop Subgroup 6C and removed succulent beans inadvertently listed
- Removed Non-detachable Container Label as it is not necessary to include in the Master Label
- Other minor corrections/revisions to punctuation, capitalization and grammar throughout the label

Please refer to the enclosed highlighted version of the proposed label for more details.

#### Fees for Service

Syngenta believes that consideration of this amendment qualifies for expedited processing under section 3(c)(3)(B)(i)(I) of FIFRA (Fast-Track) and therefore does not require a fee under the Pesticide Registration Improvement Act (PRIA).

#### Please find enclosed:

Plantback Interval Table

Ptuile Mc Cain

- Application for Pesticide Registration, EPA Form 8570-1
- Proposed Master Label, clean and highlighted PDF versions

If you have any questions or comments regarding this submission, please contact me at 336-632-7317.

Sincerely,

Patrick McCain

Senior Regulatory Product Manager

**Enclosures** 

Please read instruction	s on reverse beforepleting fo	rm.					
	United State	98			Registration	n	OPP Identifier Number
<b>≎EPA</b>	Environmental Prote	ction Agency		X	Amendmen	t I	
VLIA	Washington, DC		-	-	Other		
			L				
		ation for Pest					
Company/Product N     100-1508	lumber	2. Ms	EPA Product Venus Eagl		iger	3. Pr	oposed Classification
Company/Product (I	Name)	PM#				X	None Restricted
CruiserMaxx® Vibra		PM	•				
	of Applicant (Include ZIP Code) rop Protection, LLC	6. my r	Expedited Re product is simila				RA Section 3(c)(3) (b)(i), and labeling to:
P. O. Box 18		''					
	, NC 27419	EPA	Reg. No.				
Chec	k if this is a new address	Prof	duct Name				
onec	The this is a new address		idet ivallie				
		Section	- II				
X Amendment - E	xplain below.		Fir	nal pri	inted labels in	response 1	to
	•		Ag	gency	letter dated	_	
Resubmission ii	n response to Agency letter dated			10 100	o" Application.		
Notification - Ex	plain below.		Ot	ther - I	Explain below.		
Explanation: Use ad	ditional page(s) if necessary. (Fo	or Section I and	Section II.).				
	· · · · · · · · · · · · · · · · · · ·		-	O!-		50	A D N- 400 4500
	tion, LLC respectfully submits this were made: revised crop listing						
Pollinator Precautions	, revised Groundwater Advisory,	revised resistar	nce managem	ent s	ection, revise	ed seed to	ag restrictions, revised
plantback intervals, an throughout the label.	nd corrected list of crops included	under Crop Su	bgroup 6C, al	long v	with other mir	nor revisi	ons and corrections
Syngenta proposes thi	is submission fulfills the requirem	ents for a Fast-	Track Amend	iment	t under section	on 3(c)(3)	(B)(i)(I) of FIFRA.
		Section	-				
	uct Will Be Packaged In:				7.4 -		
Child-Resistant Packagin	ig Unit Packaging Yes		Soluble Packag Yes	ging	2. Ty	pe of Con	etal
X No	X No		No			X P	lastic
*Certification must	If "Yes" No.	per If "Yes"	N	lo. per	,		lass aper
be submitted	Unit Packaging wgt. Con		kaging wgt. co				ther (Specify)
Location of Net Con	itents Information 4.	Size(s) Retail Cor	ntainer		5. Locat	ion of Lab	el Directions
	2.5, 1	5, 30, 110 gallons			X	On Label	
X Label	Container					On Labeli	ing accompanying product
6. Manner in Which La	bel is Affixed to Product	Lithograph	[X	<u> </u>	ther Pres	sure Sens	itive
	-	Paper glued Stenciled					
		Section	- IV				
Contact Point (Com	plete items directly below for identific			ed, if n	necessary, to p	rocess this	s application.)
Name	<u> </u>	Title				Telephon	e No. (Include Area Code)
Patrick McCain		Sr. Regi	ulatory Produ	uct IV	nanager,	336-632	2-/31/
		tification				<u> </u>	6. Date Application
I certify that the state	ements I have made on this form and any knowingly false or misleading sta	d all attachments t	hereto are true, unishable by fin	, accu	rate and comp	olete.	Received (Stamped)
both under applicab			ariionabio by iiii				(Janinpou)
2. Signature		3. Title	ory Product M	/lana	ner Seedo	are	
Patrick He Co	in .	Or. Negulato	Ty T Toutet IV	vialia	iger, decuci	ui G	
Same rue							
4. Typed Name		5. Date	0.0045				
Patrick McCain		November 1	9, 2015				

Patrick McCain
EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

DOCUMENTUM

Notes.txt

Label comments to Syngenta 2/17/2016 3/1/2016 - Syngenta email disagreeing with label comments emails to Syngenta:3/2/16, 3/10, 3/23

Between March and July - EPA and Ayngenta agree to group a few seed treatment labels at

a time (approximately 15 seed treatment amdendments and new products were submitted to

the Agency in the fall of 2015 and Syngenta argued many of the revisions sent for most

product labels.

additional label comments to Syngenta 7/25/2016

- 100-1559 has the 0.266 restriction for soybean (registered recently by JM and venus). Residue study says no residues when 0.2+0.0854+0.0844 was applied to spybean

seed? - JM confirmed. Also 100-1508 me-tooed 100-1459 which was the 0.266 max on the

label. If no residues were over the LOQ (0.01ppm), and the me-too label has 0.266 lbs

of ai max, its OK to go on the label.

Venus - if me-too label has higher rate and the residue study says its fine, the 0.266

rate is fine. Phone call and emails from Syngenta not agreeing with label comments 8/2/2016,

8/15/2016
Email to Syngenta 8/2, 8/16 answering questions on label comments.
8/8 - sent email to matt saying 0.266 is fine.
9/2 new label back from sygenta, 9/7 comments to syngetna.
9/13 new label from Syngenta.

Thiamethoxam (100-941) It is the pesticide user's responsibility to ensure that all products in a tank mix are registered 100-758 (flud only-none) for the intended use. Users must follow the most restrictive directions and precautionary language of the products of the mixture (for example, first aid from one product, spray drift management from another). immediately:

Fludioxonil (100-758)

immediately (100-1426):

merenoxam (100-799)

sedaxane (100-1374) sedaxane (100-1374-barley, oat, potato, rye, soybean, triticale, wheat, dried shelled peas and beans, cchickpeas, lentils and fave beans, cotton, sorghum, sugar beet, rapeseed subgroup, corn)

alfalfa, barley, brassical (cole) leafy vegetables, canola, corn, cotton, cucurbits, dry bulb onions, fruiting vegs, leafy vegs, legime vegs, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, inidan mustard seed, indian rapeseed seed, rapeseed seed, safflower seed), peanuts, rice, root vegs, sorghum, strawberry, sunflowers, tobacco, tuberous and corm vegs, and wheat

all crops treated with sedaxane may be replanted immediately with the exception of potato seed pieces

anything else, min = 120 days

none

all crops not treated with sedaxane may be planted 30 days after planting sedaxane with treated seed (except potato)

following potato seed pieces treated with sedaxane (potato use is not on label): all crops that have not been treated with sedaxane may be planted 60 days after planting sedaxane treated seeds

\*this seed has been treated with x mg of each ai (thx, mefen, fludio, thiaben)

alfalfa, brassica cole leafy vegs, cereal grains, canola, cotton, cucurbit vegs, dry bulb onions, fruiting vegs, leafy vegs, legume vegs, mint (peppermint and separmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, inidan mustard seed, indian rapeseed seed, rapeseed seed, safflower seed), peanut root vegs, strawberry, sunflowers, tobacco, and tuberous and corm vegs

100-758 - none

anything else: 120 days

immediately no sedaxane treated potato seeds may be platned for a 12 mo period following planting of sedaxane treated potato seeds

all crops treated with sedaxane other than potato may be replanted

by shelled peces

Appendix 1

## Plantback Interval Table (for Rotational Crops Only) for Active Ingredients in CruiserMaxx Vibrance

CROPS	Maxim 4FS 100-758 Fludioxonil 180.516	Apron XL 100-799 Metalaxyl 180.408 Mefenoxam 180.546	Vibrance 100-1374 Sedaxane 180.665	Cruiser 5FS 100-941 Thiamethoxam 180.565
Alfalfa	0	0	None	0
Bulb Vegetables Crop Group 3	0	0	None	Onion, Bulb – 0
Cereal Grains Crop Group 15	0	0	Barley, Corn (Field, Pop, Sweet), Oats, Rye, Sorghum, Triticale, Wheat – 0	0
Cotton	0	0	0*	0
Cucurbit Vegetables Crop Group 9	0	0	None	0
Dried Shelled Pea and Bean (Except Soybean) Crop Subgroup 6C	0	0	0	0
Edible-podded Legume Vegetables Crop Subgroup 6A	0	0	None	0
Fruiting Vegetables Crop Group 8	0	0	None	0
Globe Artichoke	None	0	None	0
Head and Stem <i>Brassica</i> Crop Subgroup 5A	0	0	None	0
Herb Crop Subgroup 19A	0	0	None	None
Leafy <i>Brassica</i> Greens Crop Subgroup 5B	0	0	None	0
Leafy Vegetables Crop Group 4	0	0	None	0
Mint (Peppermint and Spearmint)	None	None	None	0
Peanut	0	0	None	0
Rapeseed Crop Subgroup 20A	Rapeseed - 0	Canola – 0	0	Canola, Various – 0
Root Vegetables (Except Sugarbeet) Crop Subgroup 1B	0	0	None	0
Spice Crop Subgroup 19B	0	None	None	None
Soybean	0	0	0	0
Strawberry	0	0	None	0
Succulent Shelled Pea and Bean Crop Subgroup 6B	0	0	None	0
Sugarbeet	0	0	0*	0
Sunflower	0	0	None	0
Tobacco	None	None	None	0
Tuberous and Corm Vegetables Crop Subgroup 1C	0	0	Potato - 0	0
Turnip, Greens	None	None	None	None
Watercress	0	None	None	None
All Other Crops	0	0	30 Days	120 Days

<sup>\*</sup>SDX Tolerance Established for Cotton and Sugarbeet on 7/23/2015.

In the event of crop failure or harvest of a crop grown from seed treated with CruiserMaxx Vibrance, crops may be replanted according to the following schedule:

#### Plantback Interval Table

Minimum 30-Day					
Immediate Plantback	Plantback Interval				
Canola	Alfalfa				
Cereal Grains: Barley, Corn (Field, Pop, Sweet), Oats, Rye, Sorghum, Triticale, and Wheat	<i>Brassica</i> (Cole) Leafy Vegetables Crop Group 5				
Cotton	Cereal Grains Crop Group 15				
Dried Shelled Pea and Bean Crop Subgroup 6C	Cucurbit Vegetables Crop Group 9				
Oilseeds: Borage, Crambe, Flax Seed, and Mustard Seed	Fruiting Vegetables Crop Group 8				
Potato	Leafy Vegetables Crop Group 4				
Soybean Sugarbeet	Legume Vegetables (Succulent or Dried) Crop Group 6				
	Mint: Peppermint and Spearmint				
	Onion, Bulb				
	Peanut				
	Root and Tuber Vegetables Crop Group 1				
	Safflower				
	Strawberry				
	Sunflower				
	Tobacco				

For any other crops the minimum plantback interval is 120 days from the date the seeds treated with CruiserMaxx Vibrance were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com



#### FEDERAL EXPRESS

March 10, 2015

Document Processing Desk
Office of Pesticide Programs (7505P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

NOT REVIEWED
In Accordance with PR Notice 8-3
Based on Draft Labeling Dated
/2/16/2014

Attn: Ms. Venus Eagle, PM 01, Invertebrate and Vertebrate Branch 3

SUBJECT: CRUISERMAXX® VIBRANCE®

**EPA REG. NO. 100-1508** 

SUBMISSION OF FINAL PRINTED LABELING

Dear Ms. Eagle:

Syngenta Crop Protection, LLC hereby submits one copy of final printed labeling for CruiserMaxx Vibrance (EPA Reg. No. 100-1508) that reflects the labeling accepted in EPA's approval letter dated December 10, 2014.

Enclosed is EPA form 8570-1 indicating submission of final printed labeling. If you have any questions or comments regarding this submission, please feel free to contact me at (336) 632-7317 or at <a href="mailto:patrick.mccain@syngenta.com">patrick.mccain@syngenta.com</a>.

Sincerely,

Patrick McCain

Otul Mc Can

Senior Regulatory Product Manager - Seed Care

**Enclosures** 

Please read instructions on	reverse before completing form.					•	
	United S	States		Registration		on	OPP Identifier Number
Environmental Protection Age			ency		Amendme	nt	
	Washington, DC 20460				Other	-	
	Anr	lication for	Pesticide - Sec	tion	<del></del>		
1. Company/Product Nu 100-1508		modition for	2. EPA Product Venus Eagle			3. Pro	pposed Classification
Company/Product (N CruiserMaxx Vibrance			PM# 01			X	None Restricted
5. Name and Address of	of Applicant <i>(Include ZIP Code)</i> p Protection, LLC 300		6. <b>Expedited R</b> my product is simil EPA Reg. No.				RA Section 3(c)(3) (b)(i), d labeling to:
Check i	if this is a new address		Product Name _				
		Se	ction - II				
Notification - Exp  Explanation: Use add  Syngenta Crop Prote	response to Agency letter dated	(For Section	I and Section II.)	gency Me Too Other -		v. erMaxx Vi	December 10, 2014
			ction – III				
1. Material This Produ Child-Resistant Packaging Yes* X No	y Unit Packaging Yes X No		Water Soluble Packa Yes X No	iging	2.	X Pla	tainer etal astic ass
*Certification must be submitted				No. per contair		Pa	per her (Specify)
3. Location of Net Conte	ents Information 4.	. Size(s) Reta	ail Container			ation of Labe	el Directions
X Label	Container 1	5 gal			×	On Label On Labelii	ng accompanying product
6. Manner in Which Lab	el is Affixed to Product	Lithograp Paper glu Stenciled	ıed	<u>x</u> 0	ther Press	ure Sensitiv	e Label
			tion – IV				
Contact Point (Comp. Name	plete items directly below for ide	ntification of ind		ed, if r	ecessary, to		e No. (Include Area Code)
Patrick McCain		Ser See	nior Regulatory Pro ed Care	oduct	Manager –	T G G G T G T G	••••
	ments I have made on this form ny knowingly false or misleading e law.		be punishable by fir				6. Date Application Received (Stamped)
Catuel He Cam			Regulatory Product	Mana	iger – Seed	l Care	•••••
Typed Name     Patrick McCain		5. Date	10, 2015				••••



## syngenta

### **Insecticide with Fungicides**

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:

Thiamethoxam <sup>1</sup>	
Mefenoxam <sup>2</sup>	
Fludioxonil <sup>3</sup>	
Sedaxane <sup>4</sup>	1.04%
Other Ingredients	73.99%
Total:	100.00%

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 131341-86-1 <sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

## **CAUTION**

See additional precautionary statements and directions for use in booklet [on label]. EPA Reg. No. 100-1508 EPA Est. 100-NE-001

SCP 1508A-L1A 1214

4049484

Product ID **55590** 

15 gallons
Net Contents



	FIRST AID
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
Have the product treatment.	t container or label with you when calling a poison control center or doctor or going for

#### **HOT LINE NUMBER**

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),

1-800-888-8372

#### **PRECAUTIONARY STATEMENTS**

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils
- Shoes plus socks.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

continued...

#### PRECAUTIONARY STATEMENTS (continued)

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.



#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance.

#### **USE INFORMATION**

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soil-borne and seed-borne diseases on soybeans, dried shelled beans (Vigna and Lupinus spp.).

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against Pythium, Phytophthora and systemic downy mildew.

Fludioxonil fungicide is active against Fusarium and Rhizoctonia, and suppresses seed-borne Sclerotinia and Phomopsis species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by Rhizoctonia species.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum seasonal total for the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

#### RESISTANCE MANAGEMENT

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

CruiserMaxx Vibrance contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by CruiserMaxx Vibrance or other Group 4A insecticides.

#### In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 4A insecticides exclusively for season long-control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply CruiserMaxx Vibrance or other Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A insecticides. Do not exceed the maximum CruiserMaxx Vibrance allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- · If resistance is suspected, do not reapply CruiserMaxx Vibrance or any other Group 4A insecticides.

#### Other Insect Resistance Management (IRM) practices include:

- · Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

#### For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org/.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.



Note: The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

#### **MIXING PROCEDURES**

Important: Always re-circulate CruiserMaxx Vibrance thoroughly before using.

The typical density of CruiserMaxx Vibrance is 9.56 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

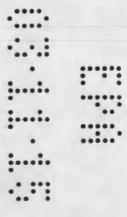
Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- · Do not use for feed, food, or oil purposes.
- · User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:



 Ground Water Advisory: Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- Pollinator Precautions: Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- . Do not allow children, pets, or livestock to have access to treated seed.
- · Store away from feeds and foodstuffs.
- · Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- · Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may
  be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7 grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application. For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.

This seed has been treated with 0.0756 mg ai thiamethoxam per seed.

- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam
  to crops grown from seed treated with a neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid
  insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

#### **CROP USE DIRECTIONS**

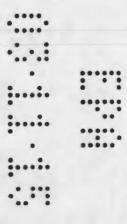
When applied according to the CRUISERMAXX VIBRANCE RATE TABLE, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to Pythium, Phytophthora, Fusarium, Rhizoctonia species and early season Phytophthora root rot as well as Anthracnose on dry bean caused by seed-borne Colletotrichum spp. CruiserMaxx Vibrance also suppresses seed-borne Sclerotinia and Phomopsis species. Additional Apron XL may be necessary for high levels of Phytophthora or Pythium. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

#### CruiserMaxx Vibrance Rate Table

Сгор	Use ra (fl oz per 100	A STATE OF THE PARTY OF THE PAR	Grams active ingredient per 100 kg seed		
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL	
Dried Shelled Bean (except soybean) including: Bean (All Lupinus species) including: grain sweet white white sweet lupin Bean (All Phaseolus Species) including: black bean cranberry bean field bean great Northern bean kidney bean lima bean navy bean pinto bean runner bean snap bean small red bean tepary bean wax bean yellow bean lima bean species including bean small red bean snap bean small red bean tepary bean wax bean yellow bean yellow bean yellow bean yellow bean yellow bean species including the same shape the same shap	3.22	0.32	Thiamethoxam 50 gm Mefenoxam 7.5 gm Fludioxonil 2.5 gm Sedaxane 2.5 gm Total = 62.5 gm	Mefenoxam 7.5 gm	

continued...



#### CruiserMaxx Vibrance Rate Table (continued)

Crop	Use ra (fl oz per 100		Grams active ingredient per 100 kg seed		
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL	
Bean (All Vigna species) including: adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea Crowder pea moth bean mung bean rice bean southern pea urd bean yardlong bean Bean, dry)	3.22	0.32	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Mefenoxam 7.5 gm	

#### CruiserMaxx Vibrance Rate Table<sup>1</sup>

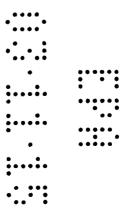
Crop Soybean, including soybean, vegetable	Rate of CruiserMaxx Vibrance			
	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed		mg ai per seed
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam Mefenoxam Fludioxonil Sedaxane Total = 62.5 gm	50 gm 7.5 gm 2.5 gm 2.5 gm	Total of all active ingredients = 0.0945 mg

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

#### STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the seed listed on this label against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.



#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ½ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

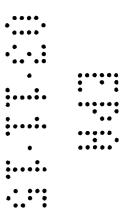
#### Container Handling [greater than 5 gallons - mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container <sup>1</sup>/<sub>4</sub> full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons - bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!



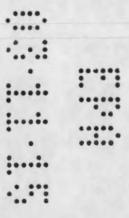
CrusierMaxx®, Vibrance®, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

Viton® trademark of E. I. du Pont de Nemours & Company, Inc. ©2015 Syngenta

For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300 SCP 1508A-L1A 1214

4049484





GROUP 4 7 12 FUNGICIDES



## Insecticide with **Fungicides**

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Other Ingredients	73.99%
Sedaxane <sup>4</sup>	1.04%
Fludioxonil <sup>3</sup>	
Mefenoxam <sup>2</sup>	
Thiamethoxam <sup>1</sup>	. 20.80%
Active ingredients.	

Total:

100.00%

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

3CAS No. 131341-86-1 4CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

See additional precautionary statements and directions for use in booklet.

#### **KEEP OUT OF REACH OF** CHILDREN CAUTION

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508

EPA Est. 100-NE-001

Product ID

CrusierMaxx®, Vibrance® and the SYNGENTA Logo are trademarks of a Syngenta Group Company.

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Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1508A-L1A 1214 4049484

15 gallons

**Net Contents** 

#### **KEEP OUT OF REACH OF CHILDREN** CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor or going for treatment. HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), call 1-800-888-8372.

ENVIRONMENTAL HAZARDS: This product is toxic to wildlife, freshwater and estuarine/ marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

Pollinator Precautions: Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming

Groundwater Advisory: Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Physical and Chemical Hazards: Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container <sup>1</sup>/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!



Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com



#### **FEDERAL EXPRESS**

February 10, 2015

Document Processing Desk
Office of Pesticide Programs (7505P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

NOT REVIEWED
In Accordance with PR Notice 8-2
Based on Draft Labeling Dated
12.1/6/2019

Attn: Ms. Venus Eagle, PM 01, Invertebrate and Vertebrate Branch 3

SUBJECT: CRUISERMAXX® VIBRANCE®

**EPA REG. NO. 100-1508** 

SUBMISSION OF FINAL PRINTED SUPPLEMENTAL LABELING

Dear Ms. Eagle:

Syngenta Crop Protection, LLC hereby submits one copy of final printed supplemental labeling for CruiserMaxx Vibrance (EPA Reg. No. 100-1508) that reflects the labeling accepted in EPA's approval letter dated December 10, 2014.

Enclosed is EPA form 8570-1 indicating submission of final printed supplemental labeling. If you have any questions or comments regarding this submission, please feel free to contact me at (336) 632-7317 or at patrick.mccain@syngenta.com.

Sincerely,

Patrick McCain

Ptuil Mc Can

Senior Regulatory Product Manager - Seed Care

**Enclosures** 

Please read instructions on reverse before completing form. **United States** OPP Identifier Number Registration &EPA **Environmental Protection Agency** Amendment Washington, DC 20460 Other Application for Pesticide - Section I Company/Product Number EPA Product Manager Proposed Classification Venus Eagle 100-1508 4. Company/Product (Name) PM# X None Restricted CruiserMaxx Vibrance 01 Name and Address of Applicant (Include ZIP Code) Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), Syngenta Crop Protection, LLC my product is similar or identical in composition and labeling to: P. O. Box 18300 Greensboro, NC 27419 EPA Reg. No. Check if this is a new address Product Name Section - II Amendment - Explain below. Final printed labels in response to Agency letter dated December 10, 2014 Resubmission in response to Agency letter dated "Me Too" Application. Notification - Explain below. Other - Explain below. Explanation: Use additional page(s) if necessary. (For Section I and Section II.). Syngenta Crop Protection, LLC hereby submits one copy of final printed supplemental labeling for CruiserMaxx Vibrance (EPA Reg. No. 100-1508) that reflects the labeling accepted in EPA's approval letter dated December 10, 2014. Section - III Material This Product Will Be Packaged In: Unit Packaging Water Soluble Packaging Type of Container Child-Resistant Packaging Yes\* Yes Yes Metal No Х No Х No **Plastic** Glass If "Yes" \*Certification must No. per If "Yes" No. per Paper be submitted Unit Packaging wgt. Container Unit Packaging wgt. container Other (Specify) Location of Net Contents Information Size(s) Retail Container Location of Label Directions On Label X Label Container 15 gal On Labeling accompanying product 6. Manner in Which Label is Affixed to Product Lithograph X Other Pressure Sensitive Label Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Telephone No. (Include Area Code) Senior Regulatory Product Manager Patrick McCain - Seed Care Certification Date-Application I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Recaived I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. 2. Signature Title tuck He Can Senior Regulatory Product Manager - Seed Care Typed Name Date February 10, 2015 Patrick McCain

#### SUPPLEMENTAL LABELING

#### Syngenta Crop Protection, LLC

P. O. Box 18300 Greensboro, North Carolina 27419-8300 SCP 1508A-S1 1214

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

Seed treatment on dried shelled beans and soybeans

## This supplemental label expires on 11/21/2017 and must not be used or distributed after this date.

Active Ingredients:	
Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	
Fludioxonil <sup>3</sup>	
Sedaxane <sup>4</sup>	1.04%
	70.000

Other Ingredients:
 73.99%

 Total:
 100.00%

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

#### KEEP OUT OF REACH OF CHILDREN.

### **CAUTION**

EPA Reg. No. 100-1508

syngenta

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using CruiserMaxx® Vibrance® as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application.

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

#### Ground Water Advisory:

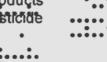
Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Pollinator Precautions:

Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.

Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.



- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso
  millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit
  vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume
  vegetables, mint (peppermint and spearmint), oil seed crops (black mustard
  seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard
  seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root
  vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables
  may be planted 30 days from the date the CruiserMaxx Vibrance treated seed
  was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.

  This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a



neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.

• The maximum number of applications per season is 2.

#### **CROP USE DIRECTIONS**

When applied according to the **CRUISERMAXX VIBRANCE RATE TABLE**, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.



#### CruiserMaxx Vibrance Rate Table

Cluise Maxx Vibrance				
Crop	Use rate (fl oz per 100 lb seed)		Grams active ingredient per 100 kg seed	
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL
Dried Shelled Bean		•		
(except soybean)	3.22	0.32	Thiamethoxam 50 gm	Mefenoxam
including:				7.5 gm
Bean (All Lupinus			Mefenoxam 7.5 gm	
species) including:				
grain			Fludioxonil 2.5 gm	
sweet			Codevene 2.5 mm	
white			Sedaxane 2.5 gm	
white sweet lupin			Total = 62 5 am	
Bean (All Phaseolus			Total = 62.5 gm	
Species) including:				
black bean				
cranberry bean				
field bean				
great Northern bean				
kidney bean				
lima bean				
navy bean pinto bean				
runner bean				
snap bean				
small red bean				
tepary bean				
wax bean				
yellow bean				
Bean (All <i>Vigna</i>				
species) including:				
adzuki bean				
asparagus bean				
blackeyed pea				
catjang			İ	
Chinese longbean				
cowpea				
Crowder pea				
moth bean				
mung bean				
rice bean				
southern pea				
urd bean				•••••
yardlong bean				••••
Broad bean (fava				•••••
Bean, dry)				
	L			



80

Crop	Rate of CruiserMaxx Vibrance		
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Total of all active ingredients = 0.0945 mg

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

CruiserMaxx® and Vibrance® trademarks of a Syngenta Group Company

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 30, 2014

Patrick McCain Syngenta Crop Protection LLC P.O. Box 18300 Greensboro, NC 27419

Subject:

Storage Stability and Corrosion Characteristics Data (Condition of Registration)

Product Name: Cruisermaxx Vibrance

EPA Reg. No. 100-1508 EPA Decision No. 496842

Dear Mr. McCain:

The study submitted to fulfill the conditional data requirements referred to above, in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A copy of the review is enclosed. The condition of registration is considered fulfilled. Should you have any questions, please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Sincerely,

Venus Eagle, PM 01

My M lm for

Invertebrate & Vertebrate Branch 3

Registration Division

Office of Pesticide Programs



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DATE OUT: December 17, 2014

SUBJECT:

STORAGE STABILITY (830.6317) & CORROSION CHARACTERISTICS (830.6320) REVIEW

ACCELERATED STUDY []; ONE YEAR STUDY [X];

OVER 1 YEAR STUDY []

MP[] EP[] EUP[X]

**ACTION CODE 570** 

DP BARCODE No.:423676 DECISION No.: 496842 REG. No.: 100-1508 MRID Nos: 494703-01 and 490704-07

PRODUCT NAME: CRUISERMAXX VIBRANCE COMPANY: SYNGENTA CORP PROTECTION, INC

FROM:

William Herald / Microbiologist (MS), Chemist / REHS/Registered Sanitarian

Chemistry, Inerts and Toxicology Assessment Branch (CITAB) RD (7505P)

TO:

Jennifer Urbanski / Venus Eagle, RM 01

Insecticide-Rodenticide Branch RD (7505P)

I. CONCLUSIONS:

STORAGE STABILITY (830.6317):

[X] ACCEPTABLE

[]UNACCEPTABLE\*

[] UPGRADEABLE\*

40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED

**CORROSION CHRACTERISTICS (830.6320):** 

[X] ACCEPTABLE

[] UNACCEPTABLE\*

[] UPGRADEABLE\*

40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED

\* If unacceptable or upgradeable describe the deficiency and provide recommendations

**Comments & Recommendations:** 

Sanitarian Miller (7505P)

#### II. STUDY SUMMARY

#### A. STUDY CONDUCTED UNDER US GLP/OECD GUIDELINES

[x] Yes [] No

#### **B. PRODUCT INFORMATION**

#### Active ingredient:

Label claims Nominal concentrations (%):

	( <i>,</i>
Fludioxonil	1.04%
Thiamethoxam	20.8%
Metalaxyl-M	3.13%
Sedaxane	1.04%

## Initial concentration(s) of the Al(s) (%) used in the study:

Non-Fluorinated HDPE Container

Fludioxonil1.06%
Thiamethoxam20.4%
Metalaxyl-M3.15%
Sedaxane1.05%

Fluorinated HDFE Container	
Fludioxonil1.07%	)
Thiamethoxam20.6%	,
Metalaxyl-M 3.18%	
Sedaxane1.05%	

#### Lower certified limits (%) based on Al % in the study Fluorinated HDPE Container

Non-Fluorinated HDPE Container

Fludioxonil	1.001%
Thiamethoxam	19.788%
Metalaxyl-M	2.99%
Sedaxane	0.9975%

Fludioxonil	1.0165%
Thiamethoxam	19.98%
Metalaxyl-M	9.606%
Sedaxane	0.9975%

#### C. EXPERIMENTAL PARAMETERS

Temperature: Ambiant (20°C)

**Humidity: 50%** 

Duration of study: [x] 1 year; [] over 1 year

Type of container: Representative commercial package which consisted of Fluorinated and non-Fluorinated high density polyethylene(HDPE) packaging. Analysis at intervals: [x] 0 (initial); [x] 3 months; [x] 6 months and [x] 12 months.

#### D. ANALYTICAL METHOD

Method	DETECTOR
High Pressure Liquid chromatography (HPLC)	UV/VIS 220-230nm

#### E. RESULTS

- 1) After storage ambient temperatures (20°C) for periods of 3, 6, and 12 month testing intervals when compared to the initial concentration of the AI (%) used in the study, the analytical results show that the concentration of the AI remained well within the lower limit ranges required in 40 CFR § 158.175 at each testing interval.
- 2) After 1 year the fluorinated and non-fluorinated HDPE containers of the test substance were evaluated and reportedly "showed no physical changes that would interfere with proper use of the product."
- 3) The analytical methods were evaluated for precision, linearity and accuracy.

# PROCESSING REQUEST

Reg #: 100-1508	Decision #: 494659
Description: ANU	adment
1 1100	
Material Available	Electronically (see PPLS):
Electronic Label/Letter	Dated: 12/10/14
Other:	
Material Sent (see jac	ket):
Stamped Label/Letter D	Pated:
☐ Notification Dated:	
☐ New CSF(s) Dated:	
Other:	
and clipped together, NOT STAPI materials to staff in the Informat jacket is full or only available as	materials in the jacket. It must be well organized LED. Then give the jacket with the coversheet and tion Services Center (ISC) (Room S-4900). If a an image, please file materials in a new jacket and wither information please call 703-605-0716.
Reviewer: Jennifer Urba	nski
Division: RD	
Phone: 347-0156	Date: 12/10/14



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 10, 2014

Patrick McCain Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419

Subject: Label Amendment – Addition of dried shelled beans to the master label and a new

supplemental label for dried shelled beans Product Name: Cruisermaxx Vibrance EPA Registration Number: 100-1508 Application Date: August 19, 2014

Decision Number: 494659

Dear Mr. McCain:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Included in this approval is a supplemental label for dried shelled beans which when distributed accompanying the product must bear an expiration date of 11/21/2017.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Page 2 of 2 EPA Reg. No. 100-1508 Decision No. 494659

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact Dr. Jennifer Urbanski at 703-347-0156 or via email at urbanski.jennifer@epa.gov.

Sincerely,

Venus Eagle, Product Manager 01 Invertebrate and Vertebrate Branch 3 Registration Division (7505P)

Enclosures



#### 

CORTOREO ESCUERMICA ESCRETAR EMISECO HESISTO REPRESENSIONE

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Syspense Crop Protection, IIIC

RO Box 12:000

Greenshoon, NC 274:19

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Label Amendment – Addition of thirt the lief team to the market and a new

Samberesa ble for died Selet bess Productions Chineman Violence EPA Regionalis Sunter: 100-1508 Amicalis Date Appet 19, 2014

Decision Territory (2006-30)

dem we went been

The amended label referred to above, submitted in accompanion with registration under the Federal Inspectional, François and Rodenic de Ass, as amended, it acceptable. This approval does not affect any conditions for were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deathful.

A suspect copy of your labeling is exclosed for your records. The labeling apportunity all previously accepted labeling. You must admit our copy of the final printed labeling before you release the product for final product as all the product as all the previously approved labeling for 18 months from the date of the later. After 18 months, you may only distribute or self-the product 17 is been fine as revised labeling or advantagedly approved labeling. To distribute or self-the distribute or self-the distribute of the later. After 18 months, you may only distribute or self-the product 17 is distribute or self-the 
Included in this group was it is associated and leder for third shelled beauty which with distributed accompanying the product must beauty accompanies distributed of 1/21/2017.

Page 2 of 2 EPA Reg. No. 100-1508 Decision No. 494659

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact Dr. Jennifer Urbanski at 703-347-0156 or via email at urbanski.jennifer@epa.gov.

Sincerely,

Venus Eagle, Product Manager 01 Invertebrate and Vertebrate Branch 3 Registration Division (7505P)

Enclosures

## ACCEPTED

12/10/2014

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

100-1508

(Master label)

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	
Sedaxane <sup>4</sup>	
Other Ingredients:	73.99%
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

#### KEEP OUT OF REACH OF CHILDREN.

## CAUTION

See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-1508

EPA Est. XXXXX

SCP 1508 MAS 0214

**Net Contents** 

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

FIRST AID		
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>	
Have the product co	ontainer or label with you when calling a poison control center or	
doctor or going for		
HOT LINE NUMBER		
For 24-Hour Medical Emergency Assistance (Human or Animal)		
or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),		
Call		
1-800-888-8372		

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant glovessuch as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils,, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils
- Shoes plus socks.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils,, polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils
- · Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL. AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance.

#### **USE INFORMATION**

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soilborne and seed-borne diseases on soybeans, dried shelled beans (*Vigna* and *Lupinus* spp.).

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against *Pythium*, *Phytophthora* and systemic downy mildew.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum seasonal total for the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

#### RESISTANCE MANAGEMENT

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use

area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

CruiserMaxx Vibrance contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by CruiserMaxx Vibrance or other Group 4A insecticides.

#### In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 4A insecticides exclusively for season long-control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply CruiserMaxx
  Vibrance or other Group 4A insecticides using a "treatment window" approach. A
  treatment window is a period of time as defined by the stage of crop development
  and/or the biology of the pests of concern. Within the treatment window, depending
  on the length of residual activity, there may either be single or consecutive
  applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for
  Use) of the Group 4A insecticides. Do not exceed the maximum CruiserMaxx
  Vibrance allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- If resistance is suspected, do not reapply CruiserMaxx Vibrance or any other Group 4A insecticides.

#### Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

#### For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org/.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.

**Note:** The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

#### MIXING PROCEDURES

Important: Always re-circulate CruiserMaxx Vibrance thoroughly before using.

The typical density of CruiserMaxx Vibrance is 9.56 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

#### Ground Water Advisory:

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### Pollinator Precautions:

Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.

- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.

- Tealed seeds exposed on soil surface may be hazardous to whole. Cover or collect readed seeds soilled during backing.
- Tested seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess traded seed. Leftowe tested seed may be doublesown
  account the headland or buried away from water sources in accordance with local
  requirements.
- Do not containingle water budies, when disposing of planting equipment was a waters.
- Depose of seed packaging in accordance with local requirements.
- To not page or each livestock on teaked areas for 45 days after planning seed.
   Teaked with Councefficers Vibrance.
- If the event of a coop value or harvest of a coop grown from Crushelficans
   Vibrarica flexibit need, the field may be replanted immediately to carrolla,
   acythean balley out the fillicate and wheat.
- Afails, Encoire (cole) leafy regalables, buckwheat, com pearl mile, prosomiler, pupcom, rice (try-ae-ded) sorghum, leasings, which ice, colon, cucurbit regalables, dry bulb onlone, fusing repetables, leafy regalables, legume regalables, mild (requermin and spearmin), or seed crops (black mustant seed, businessed, crambe seed, field mustant seed, file seed, indian mustant seed, indian repeared seed, pearlust, repeared seed, and saffower seed), convegetables, snawberry surflowers, business, and tuberrus and corm regalables may be planted 30 days from the date the Croppe Nigos Vibrariae treated seed.
- For any other copy, the minimum plant back interval is T20 days from the date the
  Crushelfiles Vibrance feeded seed was planted. A cover copy other than the
  crops listed above that is planted to ecosion control or soil improvement may be
  planted sooner than the T20 day interval, however, the crop may not be grazed
  or harvested for food or feed.
- Following policy seed meters rester with sectorage:
  - No settocare tested seeds may be planted to a 24-month period following planting of sedecare tested potato seed pieces.
- For solybeans. Do not use at a rate that will result in more than U.125 to
  themself-occurring acce (50.7 grams al/4) per year, regardless of type of
  application (seed teatment and/or tolor). Do not use at a rate that will result in
  more than U.062 to themself-occurring acce (57.5 grams al/4) per year as a seed
  teatment application.
- For third shelled beans (except solybeans). Do not use at a rate that will result in more than COES to themself-oxism per exce (27.5 prome s/4) per year.
   This area has been treated with COEs mp at themself-oxism per seed.
- With the exception of application of problems, do not make any and or toke application of problems containing this nethodam to prope grown from seed treated with a neurocontoid machine. For applicant, do not apply a reunicolinoid inserticite within 45 days of planting seed treated with Cruise Niess Vibrariae.
- The meannum number of applications per sessor is 2.

#### **CROP USE DIRECTIONS**

When applied according to the CRUISERMAXX VIBRANCE RATE TABLE, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

#### CruiserMaxx Vibrance Rate Table

Сгор	Use rate (fl oz per 100 lb seed)		Grams active ingr per 100 kg sed	
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL
Dried Shelled Bean (except				
soybean) including:	3.22	0.32	Thiamethoxam 50 gm	Mefenoxam
Bean (All <i>Lupinus</i>			_	7.5 gm
species) including:			Mefenoxam 7.5 gm	
grain				
sweet			Fludioxonil 2.5 gm	
white			0. 0.5	
white sweet lupin			Sedaxane 2.5 gm	
Bean (All Phaseolus			Total = 62 5 am	
Species) including:			Total = 62.5 gm	
black bean				
cranberry bean field bean				
great Northern bean				
kidney bean				
lima bean				
navy bean				
pinto bean				
runner bean				
snap bean				
small red bean				
tepary bean				
wax bean				
yellow bean				
Bean (All Vigna species)				
including:				
adzuki bean				
asparagus bean				

blackeyed pea		-	
catjang			
Chinese longbean			
cowpea			
Crowder pea			
moth bean			
mung bean			
rice bean			
southern pea			
urd bean			
yardlong bean			
Broad bean (fava			
Bean, dry)			

Crop	Rate of CruiserMaxx Vibrance			
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed	
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Total of all active ingredients = 0.0945 mg	

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

#### STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the seed listed on this label against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the seed to be treated has existing infestations of stored grain insects, furnigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons – mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

CruiserMaxx®, Vibrance®, the ALLIANCE FRAME, the SYNGENTA Logo, and the PURPOSE ICON are Trademarks of a Syngenta Group Company

Viton® trademark of E. I. du Pont de Nemours & Company, Inc.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481

Manufactured for: Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, North Carolina 27419-8300

#### (Non-detachable Container Label)

#### CruiserMaxx® Vibrance®

GROUP 4A INSECTICIDE
GROUP 4 7 12 FUNGICIDES

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:	
Thiamethoxam <sup>1</sup>	20.80 %
Mefenoxam <sup>2</sup>	3.13 %
Fludioxonil <sup>3</sup>	1.04 %
Sedaxane <sup>4</sup>	1.04 %
Other Ingredients:	73.99 %
Total:	100.00 %

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

#### KEEP OUT OF REACH OF CHILDREN

## **CAUTION**

See additional precautionary statements and directions for use in booklet.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508

EPA Est. XXXXX

SCP 1508 MAS 0214

**Net Contents** 

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1 <sup>4</sup>CAS No. 874967-67-6

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

EIDCT AID

FIRST AID		
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>	
Have the product c or doctor or going f	ontainer or label with you when calling a poison control center or treatment.	
	HOT LINE NUMBER  ur Medical Emergency Assistance (Human or Animal) al Emergency Assistance (Spill, Leak, Fire or Accident)  Call 1-800-888-8372	

#### **Environmental Hazards**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions:**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory:**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons – mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons - bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

CruiserMaxx®, Vibrance®, and the Syngenta Logo are Trademarks of a Syngenta Group Company.

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Manufactured for : Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

## (Non-detachable Container Label - Bulk)

# GROUP 4A INSECTICIDE

# GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

A . 1.	1	-1" t -
Active	inare	anents:

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

## KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

See additional precautionary statements and directions for use in booklet.

# AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508 EPA Est. XXXXX SCP 1508 MAS 0214

\_\_\_\_gallons

**Net Contents** 

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

# CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

	FIRST AID
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
Have the product codoctor or going for	ontainer or label with you when calling a poison control center or
	HOT LINE NUMBER  Hour Medical Emergency Assistance (Human or Animal)  ical Emergency Assistance (Spill, Leak, Fire, or Accident),  Call  1-800-888-8372

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

## **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

# **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

# Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using CruiserMaxx® Vibrance® as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application.

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

#### Ground Water Advisory:

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- Pollinator Precautions:
  - Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- · Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.

- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.
   This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

#### **CROP USE DIRECTIONS**

When applied according to the **CRUISERMAXX VIBRANCE RATE TABLE**, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

# CruiserMaxx Vibrance Rate Table

Crop	Use rate (fl oz per 100 lb seed)		Grams active ingredient per 100 kg seed	
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL
Dried Shelled Bean (except soybean) including: Bean (All Lupinus species) including: grain sweet white white sweet lupin Bean (All Phaseolus Species) including: black bean cranberry bean field bean great Northern bean kidney bean lima bean navy bean pinto bean runner bean small red bean tepary bean wax bean yellow bean Bean (All Vigna species) including: adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea Crowder pea moth bean mung bean rice bean southern pea urd bean gradlong bean Broad bean (fava	3.22	Apron XL 0.32	Cruiser Maxx Vibrance Thiamethoxam 50 gm Mefenoxam 7.5 gm Fludioxonil 2.5 gm Sedaxane 2.5 gm Total = 62.5 gm	Apron XL  Mefenoxam 7.5 gm

Crop		Rate of CruiserMaxx	Vibrance
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed
	or fl oz per 140,000 seeds <sup>1</sup>		
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm	Total of all active ingredients = 0.0945 mg
		Sedaxane 2.5 gm  Total = 62.5 gm	

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

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000100-01508.20140815.CRSMAX\_VIBR\_SUPP\_AUG14.pdf CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 - DT - 08-15-14.doc

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 HILITE Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_AMND-C-SUP\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 HILITE Version D- rk - 12-4-14 000100-01508.20140815D.CRSMAX\_VIBR\_ AMND-D-SUP\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 CLEAN Version D-  $\rm rk-12$ -4-14 000100-01508.20140815D.CRSMAX\_VIBR\_ AMND-D-SUP\_AUG14-CL.pdf

#### SUPPLEMENTAL LABELING

Syngenta Crop Protection, LLC

P. O. Box 18300 Greensboro, North Carolina 27419-8300 SCP 1508A-SX XXXX

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

Seed treatment on dried shelled beans and soybeans

This supplemental label expires on 11/21/2017 and must not be used or distributed after this date.

Active Ingredients:

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	
Other Ingredients:	
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

KEEP OUT OF REACH OF CHILDREN.

# **CAUTION**

EPA Reg. No. 100-1508

syngenta

ACCEPTED

12/10/2014

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 4500

100-1508

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

CruiserMaxx®, Vibrance®, the ALLIANCE FRAME, the SYNGENTA Logo, and the PURPOSE ICON are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

CruiserMaxx Vibrance 1508 MAS 0214 - dt - 10-08-14 - Highlighted.docx 000100-01508.20140815B.CRSMAX\_VIBR\_AMND\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND AUG2014 HILITE Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND AUG2014 CLEAN Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-CL.pdf

# ACCEPTED 12/10/2014 Under the Federal Insecticide Fungicille and Rodenboide Act as amended for the pesticide registered under EPA Reg. No. 100-1508

(Master label)

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

#### KEEP OUT OF REACH OF CHILDREN.

# **CAUTION**

See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-1508

EPA Est. XXXXX

SCP 1508 MAS 0214

**Net Contents** 

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

	FIRST AID
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> </ul>
	Have person sip a glass of water if able to swallow.
	<ul> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>
	<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
Have the product of	ontainer or label with you when calling a poison control center or
doctor or going for	treatment.
	HOT LINE NUMBER
	Hour Medical Emergency Assistance (Human or Animal)
or Chem	iical Emergency Assistance (Spill, Leak, Fire, or Accident),
	Call
	1-800-888-8372

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### **CAUTION**

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant glovessuch as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils,, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils
- Shoes plus socks.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

## **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils,, polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils
- · Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance.

#### **USE INFORMATION**

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soilborne and seed-borne diseases on soybeans, dried shelled beans (*Vigna* and *Lupinus* spp.).

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against *Pythium*, *Phytophthora* and systemic downy mildew.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum seasonal total for the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

#### RESISTANCE MANAGEMENT

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use

area. Symperic encourages responsible product stewardship to ensure effective longterm control of the insects on this label.

If residence to the product develope in your area, the product or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or externe weather conditions, a resident stain of macor may be present. If you experience officially with control and residence is a reasonable cause, immediately consult your local company representative or auticultural advance for the less alternative method of control to your area.

OutsetNew Visioner contains a Group 44 inserticite (than estoward, belonging to the remissional class of chemistry). Insert polypes will acquired or inferent resistance to Group 44 inserticities may exemually dominate the travel population if Group 44 inserticities are used repeatedly as the predominant method of control to large entrance species by Group 44 inserticities. This may result in partial or total loss of control of those species by Group 44 inserticities.

#### It order to maintain susceptibility to the class of chemistry:

- Avoid using Group 44 meeticate exclusively for season long-control of meeticates with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply Guiserhauss vibrance or other Group 4A medicines using a "treatment window" approach. A treatment window is a period of time as defined by the sage of crop development and/or the budge of the period of concern. Within the treatment window, depending on the length of residual activity, there hav either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A mandicipes. Do not exceed the maximum Guise Misson.
- Following a teatment window of Group 44 insectiones, route to a teatment window
  of effective products with a offerent mode of action before making additional
  applications of Group 44 insectiones.
- A testment whole coston, along with other PW practices to the coupand use area, a considered an effective strategy to preventing or delaying a peak a ability to develop resistance to the class of chemistry.
- If residence is automated, do not explain Counceffices vibrance or any other Groups
   42 medicales

# Other Insect Resistance Nanagement (PM) practices include:

- Incorporating FW techniques into your insect control program.
- Manisoling treated meet populations to loss of field #finesy;
- Using lank mixtures or pernixes with medicides from a different larger site of action group as long as the involved products are all registered on the same crop outlet and effective rates are applied.

#### For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: http://www.irac-online.org/.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.

**Note:** The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

#### MIXING PROCEDURES

Important: Always re-circulate CruiserMaxx Vibrance thoroughly before using.

The typical density of CruiserMaxx Vibrance is 9.56 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

## Ground Water Advisory:

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### Pollinator Precautions:

Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.

- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.

- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso
  millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit
  vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume
  vegetables, mint (peppermint and spearmint), oil seed crops (black mustard
  seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard
  seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root
  vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables
  may be planted 30 days from the date the CruiserMaxx Vibrance treated seed
  was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7 grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.
   This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

#### **CROP USE DIRECTIONS**

When applied according to the **CRUISERMAXX VIBRANCE RATE TABLE**, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

## CruiserMaxx Vibrance Rate Table

Crop	Use rate (fl oz per 100 lb seed)		Grams active ingredient per 100 kg seed	
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL
Dried Shelled Bean (except soybean) including: Bean (All Lupinus species) including: grain sweet white white sweet lupin Bean (All Phaseolus Species) including: black bean cranberry bean field bean great Northern bean kidney bean lima bean navy bean pinto bean runner bean snap bean small red bean small red bean tepary bean yellow bean Bean (All Vigna species) including: adzuki bean	3.22	0.32	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Mefenoxam 7.5 gm
Bean (All <i>Vigna</i> species)				

blackeyed pea			
catjang			
Chinese longbean			i
cowpea		1	İ
Crowder pea			
moth bean			
mung bean			
rice bean			
southern pea			
urd bean			
yardlong bean			
Broad bean (fava			
Bean, dry)			

Crop	Rate of CruiserMaxx Vibrance			
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed	
	3.22 fl oz or 1.50 fl oz per	Thiamethoxam 50 gm  Mefenoxam 7.5 gm	Total of all active ingredients = 0.0945 mg	
	140,000 seeds	Fludioxonil 2.5 gm	•	
		Sedaxane 2.5 gm		
		Total = 62.5 gm		

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

#### STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the seed listed on this label against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.

# STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

## **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

# **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

## Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

# Container Handling [greater than 5 gallons - mini-bulk]

Non-refilable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

# Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

# CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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Viton® trademark of E. I. du Pont de Nemours & Company, Inc.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481

Manufactured for: Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, North Carolina 27419-8300

# (Non-detachable Container Label)

#### CruiserMaxx® Vibrance®

GROUP 4A INSECTICIDE
GROUP 4 7 12 FUNGICIDES

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

Active Ingredients:	
Thiamethoxam <sup>1</sup>	20.80 %
Mefenoxam <sup>2</sup>	3.13 %
Fludioxonil <sup>3</sup>	1.04 %
Sedaxane <sup>4</sup>	
Other Ingredients:	73.99 %
Total:	100.00 %

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

#### KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

See additional precautionary statements and directions for use in booklet.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508

EPA Est. XXXXX

SCP 1508 MAS 0214

Net Contents

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIRST AID				
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>			
Have the product container or label with you when calling a poison control center or doctor or going for treatment.				
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372				

#### **Environmental Hazards**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Pollinator Precautions:**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory:**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

## **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

# **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

# Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Container Handling [greater than 5 gallons - mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth severaltimes. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

# Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

# CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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Manufactured for : Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300 (Non-detachable Container Label - Bulk)

# GROUP 4A INSECTICIDE

# GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

A 1.			
Active	ina	redi	ente:
ACII V C	II IU	ı Cui	CHIO.

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	100.00%

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

## **KEEP OUT OF REACH OF CHILDREN**

# **CAUTION**

See additional precautionary statements and directions for use in booklet.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1508 EPA Est. XXXXX SCP 1508 MAS 0214

\_\_\_\_\_gallons Net Contents

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1

<sup>&</sup>lt;sup>4</sup>CAS No. 874967-67-6

#### PRECAUTIONARY STATEMENTS

# **Hazards to Humans and Domestic Animals**

# CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIRST AID			
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>		
Have the product container or label with you when calling a poison control center or doctor or going for treatment.			
HOT LINE NUMBER			
For 24-Hour Medical Emergency Assistance (Human or Animal)			
or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),			
Call			
1-800-888-8372			

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### Pollinator Precautions

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

# **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

# **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

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CruiserMaxx Vibrance 1508 MAS 0214 AMEND AUG2014 HILITE Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND AUG2014 CLEAN Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-CL.pdf

## SUPPLEMENTAL LABELING

Syngenta Crop Protection, LLC

P. O. Box 18300 Greensboro, North Carolina 27419-8300 SCP 1508A-SX XXXX

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

#### CruiserMaxx® Vibrance®

Insecticide with Fungicides

Seed treatment on dried shelled beans and soybeans

This supplemental label expires on 11/21/2017 and must not be used or distributed after this date.

Active Ingredients:

Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	
Sedaxane <sup>4</sup>	1.04%
Other Ingredients:	73.99%
Total:	

<sup>&</sup>lt;sup>1</sup>CAS No. 153719-23-4

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

KEEP OUT OF REACH OF CHILDREN.

# CAUTION

EPA Reg. No. 100-1508

syngenta

ACCEPTED

12/10/2014

Under the Federal Insecticide: Fungicide and Rodenlicide Act as amended, for the pesticide registered under

EPA Reg. No. 100-1508

<sup>&</sup>lt;sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>&</sup>lt;sup>3</sup>CAS No. 131341-86-1 <sup>4</sup>CAS No. 874967-67-6

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using CruiserMaxx® Vibrance® as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application.

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

#### · Ground Water Advisory:

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- Pollinator Precautions:
  - Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- . Do not allow children, pets, or livestock to have access to treated seed.
- · Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.

- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.
   This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a neonicitinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

#### **CROP USE DIRECTIONS**

When applied according to the **CRUISERMAXX VIBRANCE RATE TABLE**, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

#### CruiserMaxx Vibrance Rate Table

Crop	Use rate (fl oz per 100 lb s	eed)	Grams active ing per 100 kg se	
	Cruiser Maxx Vibrance	Apron XL	Cruiser Maxx Vibrance	Apron XL
Dried Shelled Bean (except soybean) including: Bean (All Lupinus species) including: grain sweet white white sweet lupin Bean (All Phaseolus Species) including: black bean cranberry bean field bean great Northern bean kidney bean lima bean navy bean pinto bean runner bean snap bean small red bean tepary bean wax bean yellow bean Bean (All Vigna species) including: adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea Crowder pea moth bean mung bean rice bean southern pea urd bean yardlong bean Broad bean (fava Bean, dry)	3.22	0.32	Cruiser Maxx Vibrance Thiamethoxam 50 gm Mefenoxam 7.5 gm Fludioxonil 2.5 gm Sedaxane 2.5 gm Total = 62.5 gm	Apron XL  Mefenoxam 7.5 gm

Crop	Rate of CruiserMaxx Vibrance							
Soybean, including soybean, vegetable	fl oz per 100 lb seed <sup>1</sup> or fl oz per 140,000 seeds <sup>1</sup>	grams ai per 100 kg seed	mg ai per seed					
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam 50 gm  Mefenoxam 7.5 gm  Fludioxonil 2.5 gm  Sedaxane 2.5 gm  Total = 62.5 gm	Total of all active ingredients = 0.0945 mg					

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

CruiserMaxx® and Vibrance® trademarks of a Syngenta Group Company ©20XX Syngenta

000100-01508.20140815.CRSMAX\_VIBR\_SUPP\_AUG14.pdf CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 - DT - 08-15-14.doc

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 HILITE Version C- rk - 11-17-14 000100-01508.20140815C.CRSMAX\_VIBR\_ AMND-C-SUP\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 HILITE Version D- rk - 12-4-14 000100-01508.20140815D.CRSMAX\_VIBR\_ AMND-D-SUP\_AUG14-HI.pdf

CruiserMaxx Vibrance 1508 MAS 0214 AMEND SUPP AUG2014 CLEAN Version D- rk - 12-4-14 000100-01508.20140815D.CRSMAX\_VIBR\_ AMND-D-SUP\_AUG14-CL.pdf

#### Urbanski, Jennifer

From:

patrick.mccain@syngenta.com

Sent:

Monday, November 24, 2014 2:47 PM

To:

Urbanski, Jennifer

Subject:

RE: 100-1508 labeling comments - McCain reponse 11-24-14

Attachments:

000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-CL.PDF; 000100-01508.20140815C.CRSMAX\_VIBR\_AMND\_AUG14-HI.PDF;

000100-01508.20140815C.CRSMAX\_VIBR\_ AMND-C-SUP\_AUG14-HI.PDF; 000100-01508.20140815C.CRSMAX\_VIBR\_ AMND-C-SUP\_AUG14-CL.PDF

Hi Jenn,

As requested, attached please find the clean and highlighted versions of both the Master and supplemental label for CruiserMaxx Vibrance (100-1508). We included the expiration date and max annual rate for seed treatment applications, per your instructions below. Please let me know if you need anything else.

Thanks,

Pat

From: Urbanski, Jennifer [mailto:urbanski.jennifer@epa.gov]

Sent: Friday, November 21, 2014 10:35 AM

To: Mccain Patrick USGR

Subject: RE: 100-1508 labeling comments - Urbanski reponse 11-21-14

Three years from today!

From: patrick.mccain@syngenta.com [mailto:patrick.mccain@syngenta.com]

Sent: Friday, November 21, 2014 10:27 AM

To: Urbanski, Jennifer

Subject: RE: 100-1508 labeling comments - McCain reponse 11-18-14

OK, but I have 1 question for you. 

What expiration date would you like me to include on the supplemental label?

Thanks,

Pat

From: Urbanski, Jennifer [mailto:urbanski.jennifer@epa.gov]

Sent: Friday, November 21, 2014 10:10 AM

To: Mccain Patrick USGR

Subject: RE: 100-1508 labeling comments - McCain reponse 11-18-14

Hey Pat, looks good! Just two things then I think we're done. First, add the actual expiration date to the supplemental label. Second, in terms of the max rate of thiamethoxam, I think the proposed sentence about total max rate for ALL types of treatments is fine, but you would also need the max rate for JUST seed treatments too, as you had on the previous version of the label. I'll send the labels off to Venus for final review once I receive the revised versions. Thanks!

Best,

Jenn

From: patrick.mccain@syngenta.com [mailto:patrick.mccain@syngenta.com]

Sent: Tuesday, November 18, 2014 4:00 PM

To: Urbanski, Jennifer

Subject: RE: 100-1508 labeling comments - McCain reponse 11-18-14

Hi Jenn,

Thanks to you and Venus for your time last week to discuss your proposed changes to the CruiserMaxx Vibrance label (100-1508). Based upon this discussion and our agreed upon revisions, I have revised the label accordingly (I believe, but please double-check!). Attached please find a clean and highlighted version of both the proposed Master and supplemental labels.

As you'll see, the vast majority of the requested revisions you requested have been made. On age 10, comments #2 and #4 related to the max thiamethoxam per year that is allowed. I investigated this and found that for soybeans, which allows a seed treatment followed by foliar applications, the max annual rate is 0.125 lbs TMX/A/year. Magnitude of Residue data to cover these applications was submitted to EPA and assigned MRID No. 46162504. For the other legume crops listed on the label, only a seed treatment application is allowed, so I copied the max annual rate of 0.083 lbs TMX/A/year listed on the CruiserMaxx label.

To address the Agency's concerns related to rate and crops proposed in this amended label, I include the following information.

Listed immediately below is the table from the cover letter I submitted with this amended label request. This table was included to indicate that the <u>proposed rates</u> on the additional legume crops proposed in the amended label for CruiserMaxx Vibrance have previously been approved.

			Active Ingredie g ai/100 kg
Product Name	EPA Reg No.	TMX	MFX
CruiserMaxx Vibrance	100-1508	50	7.5
CruiserMaxx	100-1247	50	3.75
Apron XL LS	100-799		7.5 – 15
Vibrance	100-1374	-	-

When determining the <u>crops</u> that have been previously approved, I draw your attention to the latest EPA-approved label for CruiserMaxx dated March 5, 2104, which contains 3 of the 4 active ingredients in CruiserMaxx Vibrance (mefenoxam, thiamethoxam and fludioxonil), and the EPA-approved label for Vibrance dated, which includes the remaining ai, sedaxane. The CruiserMaxx label includes uses for the entire legume vegetable crop group 6. The Vibrance label includes approved uses for soybeans and separately, dried shelled pea and bean subgroup only (subgroup 6C). Since the uses I am proposing on the CruiserMaxx Vibrance label only lists crops from crop subgroup 6C that are listed on the Vibrance label, I believe this proposed label should suffice.

Please let me know if you have any further questions or concerns.

Thanks, Pat

Patrick McCain

Senior Regulatory Product Manager Regulatory Affairs – Seed Care

Syngenta Crop Protection, LLC PO Box 18300 Greensboro, NC 27419-8300

Phone 1 800 334 9481 direct 336 632 7317 mobile 336 681 1349

patrick.mccain@syngenta.com www.syngenta.com

From: Urbanski, Jennifer [mailto:urbanski.jennifer@epa.gov]

Sent: Wednesday, November 05, 2014 7:54 AM

To: Mccain Patrick USGR

Subject: 100-1508 labeling comments

Hey Pat, labeling comments are attached, please revise and send me the clean copy of the updated label. Thanks!

Jennifer Urbanski, Ph.D., Biologist Invertebrate-Vertebrate Branch 3, S7221 Registration Division (7505P) U.S. Environmental Protection Agency 1200 Pennsylvania Ave. NW Washington, DC 20460 (703) 347-0156

This message may contain confidential information. If you are not the designated recipient, please notify the sender immediately, and delete the original and any copies. Any use of the message by you is prohibited.

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#### DATA PACKAGE BEAN SHEET

Date: 05-Nov-2014

Page 1 of 3

Registration Information \* \* \*

Decision #: 496842 DP #: (423676)

**NON PRIA** 

Parent DP #:

Submission #: 959281

E-Sub #: 6639

### Registration: 100-1508 - CRUISERMAXX VIBRANCE Company: 100 - SYNGENTA CROP PROTECTION, LLC Risk Manager: RM 01 - Venus Eagle - (703) 308-8045 Room# PY1 S-7228 Risk Manager Reviewer: Jennifer Urbanski JURBANSK Sent Date: PRIA Due Date: 04-Feb-2015 **Edited Due Date:** Type of Registration: Product Registration - Section 3 Action Desc: (570) CONDITIONAL REGISTRATION FOLLOW-UP; DATA REQUIRED; REQUIRES RD REVIE Ingredients: See page 3 \* \* \* Data Package Information \* \* \* Expedite: Yes No Date Sent: 05-Nov-2014 Due Back: DP Ingredient: See page 3 DP Title: CSF Included: Yes No Label Included: Yes No Parent DP #: Assigned To **Date Out** Date In Organization: RD / CITAB Last Possible Science Due Date: 26-Nov-2014 Team Name: CHEM Science Due Date: Reviewer Name: Sub Data Package Due Date: Contractor Name:

#### \* \* \* Studies Sent for Review \* \* \*

Printed on Page 2

### \* \* \* Additional Data Package for this Decision \* \* \*

No Additional Data Packages

### \* \* \* Data Package Instructions \* \* \*

Attn PC reviewer: Please review the storage stability and corrosion characteristics data referenced in this bean. I attached the cover letter and CSFs for your convenience, but all the documents can be found in Documentum under e-submission package # 6639. Let me know if you need anything else, thanks!

Page 3

DP#: (423676) * * * * Produ Data Package Ing		* * * Produ Data Package Ingredients * * *	Decision#: (496842)
PC Code	CAS	Ingredient Name	
060109	153719-23-4	Thiamethoxam	
071503	131341-86-1	Fludioxonil	
113502	70630-17-0	Metalaxyl-M	***
129223	874967-67-6	Sedaxane	
060109	153719-23-4	Thiamethoxam(20.8%)	
071503	131341-86-1	Fludioxonil(1.04%)	
113502	70630-17-0	Metalaxyl-M(3.13%)	
129223	874967-67-6	Sedaxane(1.04%)	

DP#: (423676)	Page 2  *** Studies Sent for Review *	*** Studies Sent for Review ***		
49470301	Ligon, W. (2014) Thiamethoxam/Metalaxyl-M (Mefenoxam)/Fludioxonil/Sedaxane FS (A19997A) - One Year Storage Stability at Ambient Temperature and Corrosion Characteristics. Project Number: TK0180660, PC/14/069, TK0067606. Unpublished study prepared by Syngenta Crop Proteciton, LLC. 30p.	830.6317/Storage stability	Pass (27-Oct-2014)	
49470301	Ligon, W. (2014) Thiamethoxam/Metalaxyl-M (Mefenoxam)/Fludioxonil/Sedaxane FS (A19997A) - One Year Storage Stability at Ambient Temperature and Corrosion Characteristics. Project Number: TK0180660, PC/14/069, TK0067606. Unpublished study prepared by Syngenta Crop Proteciton, LLC. 30p.	830.6320/Corrosion characteristics	Pass (27-Oct-2014)	

# E-SUBMISSION

## Memorandum

Date: 10/27/14

To: PM 01, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: Fully accepted submission

partially accepted submission

☐ rejected submission

5.5 + C.C.

5,70



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

October 21, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

SYNGENTA CROP PROTECTION, LLC 410 SWING ROAD PO.BOX: 18300 GREENSBORO, NC 27419-8300

Report of Analysis for Compliance with PR Notice 11-03

Thank you for your submittal of 17-OCT-14. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 11-03. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 20, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JOHN ABBOTT SYNGENTA CROP PROTECTION, LLC 410 SWING ROAD, PO Box 18300 GREENSBORO, NC 27419-8300

PRODUCT NAME: CRUISERMAXX VIBRANCE

COMPANY NAME: SYNGENTA CROP PROTECTION, LLC

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 100-1508 EPA RECEIPT DATE: 10/17/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 1, at (703) 308-8045.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



# Fee for Service

{9592818~

This package includes the following	for Division
<ul><li>New Registration</li><li>Amendment</li></ul>	○ AD ○ BPPD ○ RD
<ul><li>Studies? □ Fee Waiver?</li><li>□ volpay % Reduction:</li></ul>	Risk Mgr. 1
Receipt No. S- EPA File Symbol/Reg. No. Pin-Punch Date:	959281 100-1508 10/17/2014
This item is NOT subject t	o FFS action.
Action Code:  Requested:  Granted:  Amount Due: \$	Parent/Child Decisions:
Reviewer: Two for Intended Use  Remarks:	Uncleared Inert in Product Date: 10/24/14
Remarks: popular conditional data	



Patrick McCain Senior Regulatory Product Manager Regulatory Affairs, Seed Care (336) 632-7317 (phone) (336) 632-5688 (fax)

patrick.mccain@syngenta.com

Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com

October 14, 2014

Document Processing Desk (DATA)
Office of Pesticide Programs (7505P)
U.S. Environmental Protection Agency
One Potomac Yard
2777 South Crystal Drive – Room S-4900
Arlington, VA 22202

Attention: Ms. Venus Eagle - PM Team 1, Insecticide-Rodenticide Branch

Subject: CruiserMaxx® Vibrance®, EPA Reg. No. 100-1508

Condition of Registration

Product Chemistry Group B Data Volume, Addendum to MRID 49070403

Dear Ms. Eagle:

Syngenta Crop Protection, LLC is submitting Product Chemistry Group B Data, One Year Storage Stability at Ambient Temperature and Corrosion Characteristics study for the subject product, addendum to MRID 49070403. Please note that the subject product is also referred to as Thiamethoxam/Metalaxyl-M (Mefenoxam)/Fludioxonil/Sedaxane FS (A19997A) in the data volume.

This data volume is being submitted in order is to satisfy the Condition of Registration requirement for EPA Guidelines 830.6317 and 830.6320, due August 27, 2015, per EPA Notice of Registration of the subject product dated February 27, 2014.

#### Fees for Service

Per PR Notice 98-10, as this submission fulfills a Condition of Registration, it does not necessitate either the assignment of a PRIA III category or the payment of a PRIA III fee.

#### Enclosed are:

Transmittal Document

Catuel Mc Can

One (1) Product Chemistry data volume, Report No. PC-14-069, Task No. 0180660

If you have any questions or comments regarding this submission, please contact me at 336 632-7317.

Sincerely,

Patrick McCain

Senior Regulatory Product Manager

**Enclosures** 

#### VOLUME 1 OF 2 OF SUBMISSION (TRANSMITTAL DOCUMENT)

1. Name and Address of Submitter

Syngenta Crop Protection, LLC P.O. Box 18300

Greensboro, NC 27419

2. Regulatory Action in Support of which this Package is Submitted

CruiserMaxx Vibrance (EPA Reg. No. 100-1508) Condition of

Registration Product Chemistry Group B Data Volume, Addendum to

MRID 49070403

3. Transmittal Date

10/14/2014

4. List of Submitted Studies

MRID NUMBER	VOLUME NUMBER	STUDY TITLE	EPA GUIDELINE NUMBER	
49470300	1 OF 2	Transmittal Document	N/A	
49470301	2 OF 2	Thiamethoxam/Metalaxyl-M (Mefenoxam)/Fludioxonil/Sedaxane FS (A19997A) - One Year Storage Stability at Ambient Temperature and Corrosion Characteristics (Addendum to MRID - 49070403), PC-14-069, (A19997A_50056)	830.6317 830.6320	

COMPANY OFFICIAL:

PATRICK MCCAIN

(SIGNATURE)

Patrick He Can

COMPANY NAME:

SYNGENTA CROP PROTECTION, LLC

COMPANY CONTACT:

PATRICK MCCAIN

(336) 632-7317

(NAME)

(NAME)

(PHONE)



# Fee for Service

{9565805~

This package includes the following	for Division			
O New Registration	○ AD ○ BPPD			
Amendment	● RD			
□ Studies? □ Fee Waiver? □ volpay % Reduction:	Risk Mgr. 1			
Receipt No. S-	956580			
EPA File Symbol/Reg. No.	100-1508			
Pin-Punch Date:	8/20/2014			
This item is NOT subject to	o FFS action.			
Action Code:	Parent/Child Decisions:			
Requested:				
Granted:				
Amount Due: \$				
■ Inert Cleared for Intended Use	Uncleared Inert in Product			
Reviewer: Aswathy Balan	Date: 8 21 14			
Remarks: No cited product. Return	n for recode if PRIA			



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

August 21, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. BUNNIE KONAT SYNGENTA CROP PROTECTION, LLC 410 SWING ROAD, PO Box 18300 GREENSBORO, NC 27419-8300

PRODUCT NAME: CRUISERMAXX VIBRANCE

COMPANY NAME: SYNGENTA CROP PROTECTION, LLC

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 100-1508 EPA RECEIPT DATE: 08/20/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 1, at (703) 308-8045.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

## FAST-TRACK AMENDMENTS - Completeness Screening Checklist

E	xpert's In-Processing Signature:	PM #:		-
EPA R	Reg. Number: 100-(508 EPA Receipt Date: 8	20/1	4	
				and other land
1	Application Form (EPA Form 8570-1) - signed?			
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?			
(3)	Certification with Respect to Citation of Data (EPA Form 8570-34) - signed?			
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?			
(5)	Data Matrix (EPA Form 8570-35) [Applicable for adding me-too uses] - signed?			
	a) Selective Method?	-		
	b) Cite-All Method? c) Public copy of Matrix provided? See PR Notice 98-5			
6	Is Label included? (5 copies)	1		
	a) Electronic Label submitted?	i		
N	comments: ordata comp No Cited - adding use Return for recede of PRIA			

Please read instructions on	reverse before comple rm.				_	_		
	United States  Environmental Protection Age				Regi	istratio	n	OPP Identifier Number
<b>⊕EP</b> A				х	Ame	endment		
	Washington	, DC 20460			Othe	er		
	Ap	plication for	Pesticide - Sec	tion	1			
Company/Product No.     100-1508	ımber		2. EPA Produ Mr. Venus Eag		anage	r	3. Pr	oposed Classification
Company/Product (N CruiserMaxx® Vibra			PM#				X	None Restricted
			Expedited R my product is simil  EPA Reg. No					RA Section 3(c)(3) (b)(i), and labeling to:
Check	f this is a new address		Product Name _					
		Se	ection - II					
x Amendment - Ex	plain below. response to Agency letter date	ed	<b>□</b> ^	gency	letter		response t	10
Notification - Exp	lain below.			ther -	Explai	in below		
Explanation: Use add	itional page(s) if necessary	. (For Section	I and Section II.).					
product CruiserMa	tection, LLC is seeking xx Vibrance, EPA Reg xam and sedaxane.	. No. 100-1	508, containing					
4 Material This Dead	et Will De Beeleesed In.	Se	ction – III					
1. Material This Produ Child-Resistant Packagins Yes* X No	Unit Packaging Yes X No		Water Soluble Packa Yes X No	ging		2. T	X P	tainer etal astic lass
*Certification must be submitted	If "Yes" Unit Packaging wgt.			No. pe contair		[		aper ther (Specify)
Location of Net Cont     X Label	_		ail Container , 120 gal, 264 gal, l	Bulk	5.	Loca	On Label	el Directions
6. Manner in Which Lab	el is Affixed to Product	Lithogra Paper gl Stenciled	ued	x C	Other	Pressu	re Sensitiv	<u>'e</u>
			ction – IV					
1. Contact Point (Comp Name Patrick McCain	olete items directly below for id	Title Sr.					Telephon	s application.) e No. (Include Area Code) 2-6395
I acknowledge that a both under applicable	ments I have made on this form by knowingly false or misleading law.	ng statement ma	y be punishable by fir					6. Date Application Received (Stamped)
2. Signature  Batuel Mc Co	<u> </u>	3. Title Sr. Reg	e gulatory Product	Mana	ager,	Seed	Care	•••••
Typed Name		5. Dat	e : 19, 2014					



Patrick McCain
Senior Regulatory Product Manager
Regulatory Affairs, Seed Care
(336) 632-7317 (phone)
(336) 632-5688 (fax)
patrick.mccain@syngenta.com

Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com

FED EX

August 19, 2014

Document Processing Desk (E-SUB)(AMEND)
Office of Pesticide Program (7505P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

Attention: Ms. Venus Eagle - PM Team 1, Insecticide-Rodenticide Branch

Subject: Label Amendment - Fast Track

CruiserMaxx Vibrance (EPA Reg No. 100-1508)

**Amended Directions for Use** 

Dear Ms. Eagle:

Syngenta Crop Protection, LLC is seeking to amend the current EPA-approved label for seed treatment product CruiserMaxx Vibrance, EPA Reg. No. 100-1508, containing the active ingredients thiamethoxam, fludioxonil, mefenoxam and sedaxane. Currently, CruiserMaxx Vibrance is approved for use on soybeans only. The proposed revisions included on the attached draft label include the addition of dried shelled beans. The combination and rates of active ingredients applied by CruiserMaxx Vibrance are currently used on dried shelled beans in the US in a variety of products (see table below).

			Active Ingredient (ai) Rate g ai/100 kg seed						
Product Name	EPA Reg No.	TMX	MFX	FDL	SDX				
CruiserMaxx Vibrance	100-1508	50	7.5	2.5	2.5				
CruiserMaxx	100-1247	50	3.75	2.5	-				
Apron XL LS	100-799	-	7.5 - 15	-	-				
Vibrance	100-1374	-	-	-	2.5 - 5				

With - Yrang

In addition, other revisions include minor changes to the Seed Tag language to account for these new proposed crops as well as minor changes to the container handling language to get it up to current standards. Please refer to the "marked" version of the proposed label enclosed for more details.





Patrick McCain
Senior Regulatory Product Manager
Regulatory Affairs, Seed Care
(336) 632-7317 (phone)
(336) 632-5688 (fax)
patrick.mccain@syngenta.com

Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com

#### Fees for Service

Syngenta believes that consideration of this amendment qualifies for expedited processing under section 3(c)(3)(B)(i)(I) of FIFRA (Fast-Track) and therefore does not require a fee under the Pesticide Registration Improvement Act (PRIA).

#### Enclosed are:

- Completed EPA Application for Pesticide Registration Form 8570-1
- PDF copy of the proposed Master Label, including one highlighted copy and supplemental label with proposed new uses

If you have any questions or comments regarding this application, please contact me at 336-632-7317.

Sincerely.

Patrick McCain

Qtuil Ne Can

Senior Regulatory Product Manager

**Enclosures** 





#### FedEx

April 30, 2014

Document Processing Desk
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

Attention: Ms. Venus Eagle—PM Team 1, Insecticide-Rodenticide Branch

SUBJECT: CruiserMaxx Vibrance

**EPA REG. NO. 100-1508** 

SUBMISSION OF FINAL PRINTED LABELING

In accordance with the above subject matter, Syngenta Crop Protection, LLC is submitting one copy of final printed labeling for CruiserMaxx<sup>®</sup> Vibrance<sup>®</sup> that reflects the labeling accepted in EPA's approval letter dated February 27, 2014.

Also enclosed is EPA Form 8570-1 indicating submission of final printed labeling. If you have any questions, please contact me at 336-632-7317.

Sincerely,

Patrick McCain

Senior Regulatory Product Manager

Patrick He Can

**Enclosures** 

Please read instructions on revers	se before completu m					
United States  Environmental Protection Agency				F	Registration	OPP Identifier Number
			ency	A	mendment	
0271	Washington,	, DC 20460		×	Other	
				<u> </u>		
Company/Product Number		plication for	Pesticide - Sec 2. EPA Product		er 3. Pr	roposed Classification
100-1508			Venus Eagle	. Ivialiagi	5. [1	oposed classification
Company/Product (Name)			PM#			None Restricted
CruiserMaxx Vibrance  5. Name and Address of App	licant (Include 7IP Code)		Expedited R	oviou	In accordance with Ell	FRA Section 3(c)(3) (b)(i),
Syngenta Crop Pro					ntical in composition a	
P. O. Box 18300						
Greensboro, NC 2	7419		EPA Reg. No.			
Check if this	is a new address		Product Name _			
		Se	ction - II			
Amendment - Explain	below		Ţ Fi	inal print	ted labels in response	to
, who have a coppain	501011.				•	February 27, 2014
Resubmission in respo	onse to Agency letter date	ed			Application.	
Notification - Explain b	pelow.			ther - E	cplain below.	
Explanation:						
Syngenta Crop Protection,	LLC is submitting one	copy of final	printed labeling i	for Cru	iserMaxx Vibrance	that reflects the labeling
accepted in EPA's approval	_		,g			
Material This Product William	II Be Packaged In:	Sec	ction – III			
Child-Resistant Packaging	Unit Packaging		Water Soluble Packa	ging	2. Type of Cor	ntainer
Yes*	Yes x No		Yes x No			letal Pastic
X No		1	x No			Blass
*Certification must be submitted				No. per containe		aper Other (Specify)
pe submitted	Offit Packaging wgt.	Container		Ontaine		vitiei (Specily)
Location of Net Contents I	nformation 4	4. Size(s) Ret	ail Container		5. Location of Lat	pel Directions
X Label C	ontainer 2	) 5 and 15 and 1	20 and 264 and Bulk		x On Label	
LA Label	or italile:	2.5 gai, 15 gai, 1	20 gal, 264 gal, Bulk		On Laber	ling accompanying product
6. Manner in Which Label is	Affixed to Product	Lithograp	_	X Oth	ner Pressure Sensiti	<u>ve</u>
		Paper glu Stenciled				.****
<u> </u>		Sec	tion – IV			• • • •
Contact Point (Complete)	items directly below for ide	entification of inc	dividual to be contact	ed, if ne		is application)
Name Patrick McCain		Title		+ 1.4000		ne No. (Include Area Code)
Patrick McCain			Regulatory Producecialist	t iviana	ager 336-632	(-/31/
		Certification				6. Date Application
I certify that the statement I acknowledge that any kn						Received (Stamped)
both under applicable law.				10 01 1111	prigoritierit Of	(Glainpeu)
2. Signature		3. Title		~~-		••••
Patrick He Ca	•	Regulati	ory Product Mana	ger		••••
Gallier Mica	-					
4. Typed Name Patrick McCain		5. Date April 30, 2				

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES

PULL HERE TO OPEN



# syngenta

### **Insecticide with Fungicides**

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean

Active ingredients:	
Thiamethoxam <sup>1</sup>	20.80%
Mefenoxam <sup>2</sup>	3.13%
Fludioxonil <sup>3</sup>	1.04%
Sedaxane <sup>4</sup>	1.04%
Other Ingredients	73.99%
Total:	100.00%

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

3CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

# KEEP OUT OF REACH OF CHILDREN

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1508 EPA Est. 100-NE-001

SCP 1508A-L1 0214 4038032

Product ID **55590** 

15 gallons Net Contents



FIRST AID					
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>				
Have the product treatment.	ct container or label with you when calling a poison control center or doctor or going for				
	HOT LINE NUMBER  For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372				

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material Category A (e.g., natural rubber ≥ 14 mils)
- · Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROL STATEMENTS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced of modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

continued...

#### PRECAUTIONARY STATEMENTS (continued)

#### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

#### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

Syngenta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABELS.

To the extent permitted by applicable law, in no event shall Syngenta be liable for any incidental, consequential of special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralis
- Chemical-resistant gloves made of any waterproof material Category A (e.g., natural rubber ≥ 14 mils)
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance.

#### **USE INFORMATION**

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soil-borne and seed-borne diseases of soybeans.

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against Pythium, Phytophthora and systemic downy mildew.

Fludioxonil fungicide is active against Fusarium and Rhizoctonia, and suppresses seed-borne Sclerotinia and Phomopsis species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by Rhizoctonia species.

#### RESISTANCE MANAGEMENT

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

CruiserMaxx Vibrance contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by CruiserMaxx Vibrance or other Group 4A insecticides.

#### In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 4A insecticides exclusively for season long-control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply CruiserMaxx Vibrance or other Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A insecticides. Do not exceed the maximum CruiserMaxx Vibrance allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- · If resistance is suspected, do not reapply CruiserMaxx Vibrance or any other Group 4A insecticides.

#### Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

#### For additional information on Insect Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <a href="http://www.irac-online.org/">http://www.irac-online.org/</a>.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.

Note: The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

#### **MIXING PROCEDURES**

Important: Always re-circulate CruiserMaxx Vibrance thoroughly before using.

The typical density of CruiserMaxx Vibrance is 9.56 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

#### SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- · Do not use for feed, food, or oil purposes.
- · User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance:

- Ground Water Advisory: Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.
  - Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- Pollinator Precautions: Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- · Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- · Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, Brassica (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- Do not use at a rate that will result in more than 0.266 lb thiamethoxam per acre (120.6 grams ai/A) per year a seed treatment application.
- This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- · Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.

#### **CROP USE DIRECTIONS**

When applied according to the CRUISERMAXX VIBRANCE RATE TABLE, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to Pythium, Phytophthora, Fusarium, Rhizoctonia species and early season Phytophthora root rot. CruiserMaxx Vibrance also suppresses seed-borne Sclerotinia and Phomopsis species.

#### CruiserMaxx Vibrance Rate Table<sup>1</sup>

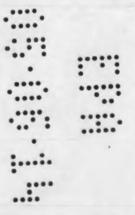
Crop	Rate of CruiserMaxx Vibrance					
Soybean, including soybean, vegetable	fl oz per 100 lb seed or fl oz per 140,000 seeds grams ai per 100 kg seed		mg ai per seed			
	3.22 fl oz or 1.50 fl oz per 140,000 seeds	Thiamethoxam Mefenoxam Fludioxonil Sedaxane	50 gm 7.5 gm 2.5 gm 2.5 gm	Thiamethoxam Mefenoxam Fludioxonil Sedaxane	0.0756 mg 0.0113 mg 0.0038 mg 0.0038 mg Total = 0.0945 mg	

<sup>&</sup>lt;sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

#### STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the soybean seed against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the soybean seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.



#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

#### **Container Handling**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

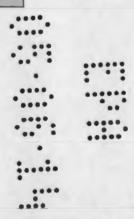
CrusierMaxx®, Vibrance®, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1508A-L1 0214 4038032



GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES



### Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean

 Active Ingredients:
 20.80 %

 Thiamethoxam¹
 20.80 %

 Mefenoxam²
 3.13 %

 Fludioxonil³
 1.04 %

 Sedaxane⁴
 1.04 %

 Other Ingredients
 73.99 %

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

3CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

See additional precautionary statements and directions for use in booklet.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard

EPA Reg. No. 100-1508 EPA Est. 100-NE-001

Product ID 55590

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0294

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1508A-L1 0214 4038032

15 gallons

**Net Contents** 

# CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### FIRST AID

100.00%

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor or going for treatment. HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), call 1-800-888-8372.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

#### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

#### **Container Handling**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container leaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

